

---

# **ciscoisesdk Documentation**

***Release 2.0.7***

**Nov 01, 2022**



# CONTENTS

|          |   |             |
|----------|---|-------------|
| <b>1</b> | <b>The User Guide</b>   | <b>3</b>    |
| 1.1      | Installation . . . . .  | 3           |
| 1.2      | Introduction . . . . .  | 4           |
| 1.3      | Quickstart . . . . .  | 7           |
| 1.4      | User API Doc . . . . .  | 20          |
| <b>2</b> | <b>The Development Community</b>                                      | <b>2157</b> |
| 2.1      | Contributor Covenant Code of Conduct . . . . .                        | 2157        |
| 2.2      | Contributing . . . . .  | 2158        |
| 2.3      | Changelog . . . . .   | 2160        |
| <b>3</b> | <b>General Information about the Identity Services Engine Service</b> | <b>2173</b> |
| 3.1      | What is Identity Services Engine? . . . . .                           | 2173        |
| 3.2      | Identity Services Engine for Developers . . . . .                     | 2173        |
|          | <b>Python Module Index</b>  | <b>2175</b> |
|          | <b>Index</b>  | <b>2177</b> |



---

*Simple, lightweight, scalable Python API wrapper for the Identity Services Engine APIs*

---

Welcome to the docs! `ciscoisesdk` is a *community developed* Pythonic wrapping of the Identity Services Engine APIs (for API versions: 3.1.0, 3.1.1 and 3.1\_Patch\_1). The package represents all of the Cisco Identity Services Engine API interactions via native Python tools. Making working with the Cisco Identity Services Engine APIs in Python a *native* and *natural* experience.

**ciscoisesdk helps you get things done faster.** We take care of the API semantics, and you can focus on writing your code.

With `ciscoisesdk`, you can easily:

- Interact with the Identity Services Engine APIs in an interactive Python session
- Quickly create code that enables you get something done in Identity Services Engine
- Leverage the API wrapper to cleanly add Identity Services Engine functionality to your project without having to write the boilerplate code for working with the Identity Services Engine APIs

To *dive in* and see how `ciscoisesdk` makes your life better, check out the [Quickstart](#)!

|   |
|---|
| <b>Warning:</b> Version 3.1_Patch_1 is the same as 3.1.1. Future releases will remove version 3.1.1 of ISE. |
|---|



## THE USER GUIDE

### 1.1 Installation

#### 1.1.1 PIP Install

ciscoisesdk is available via PIP and the [Python Package Index \(PyPI\)](#). To install ciscoisesdk, simply run this command from your terminal of choice:

```
$ pip install ciscoisesdk
```

The ciscoisesdk package is distributed as a *source distribution* (no binaries).

#### 1.1.2 PIP Upgrade

To ensure that you have the latest version, check-for and install upgrades via PIP:

```
$ pip install ciscoisesdk --upgrade
```

#### 1.1.3 Get the Source Code

ciscoisesdk is developed on GitHub. If you like and use this package, please take a few seconds to Star the package on the [CiscoISE/ciscoisesdk](#) GitHub page. Your feedback and contributions are always welcome.

Use the following command to download the source code (GIT repository):

```
$ git clone https://github.com/CiscoISE/ciscoisesdk.git
```

You can then install the package to your environment, with the following command:

```
$ python setup.py install
```

*Copyright (c) 2021 Cisco and/or its affiliates.*

## 1.2 Introduction

### 1.2.1 Work with the Identity Services Engine APIs in Native Python!

Sure, working with the Identity Services Engine APIs is easy (see [api\\_docs](#)). They are RESTful, naturally structured, require only a simple Access Token for authentication, and the data is elegantly represented in intuitive JSON. What could be easier?

```
import requests

URL = 'https://dcloud-dna-ise-rtp.cisco.com/ers/config/networkdevice'
ACCESS_TOKEN = '<your_access_token>'

filter_query = '<filter_query>'
headers = {'authorization': ACCESS_TOKEN,
           'Content-type': 'application/json;charset=utf-8'}
params_data = { 'filter': filter_query }
response = requests.get(URL, params=params_data, headers=headers)
if response.status_code == 200:
    device_response = response.json
    if device_response.get('SearchResult') and device_response['SearchResult'].get(
        ↪ 'resources'):
        for device in device_response['SearchResult']['resources']:
            print('{:20s}{}'.format(device['id'], device['name']))
else:
    # Oops something went wrong... Better do something about it.
    print(response.status_code, response.text)
```

Like I said, EASY. However, in use, the code can become rather repetitive...

- You have to setup the environment every time
- You have to remember URLs, request parameters and JSON formats (or reference the docs)
- You have to parse the returned JSON and work with multiple layers of list and dictionary indexes

Enter **ciscoisesdk**, a simple API wrapper that wraps all of the Identity Services Engine API calls and returned JSON objects within native Python objects and methods.

With **ciscoisesdk**, the above Python code can be consolidated to the following:

```
from ciscoisesdk import api

api_ = api.IdentityServicesEngineAPI(username='admin',
                                     password='C1sco12345',
                                     uses_api_gateway=True,
                                     base_url='https://dcloud-dna-ise-rtp.cisco.com',
                                     version='3.1_Patch_1',
                                     verify=True,
                                     debug=False,
                                     uses_csrf_token=False)
# Or even just api_ = api.IdentityServicesEngineAPI(username='admin', password=
↪ 'C1sco12345') as others have those values by default.
try:
    device_response = api_.network_device.get_network_device(filter='name.EQ.Test').
    ↪ response
    if device_response.SearchResult and device_response.SearchResult.resources:
        for device in device_response.SearchResult.resources:
```

(continues on next page)



(continued from previous page)

```

        print('{:20s}{}'.format(device.hostname, device.upTime))
except ApiError as e:
    print(e)

```

**ciscoisesdk handles all of this for you:**

- Reads your Identity Services Engine credentials from environment variables (IDENTITY\_SERVICES\_ENGINE\_ENCODED\_AUTH, IDENTITY\_SERVICES\_ENGINE\_USERNAME, IDENTITY\_SERVICES\_ENGINE\_PASSWORD)
- Reads your Identity Services Engine API version from environment variable IDENTITY\_SERVICES\_ENGINE\_VERSION. Supported versions: 3.1.0, 3.1.1 and 3.1\_Patch\_1. Now with version and base\_url, you have more control.
- Controls whether to verify the server's TLS certificate or not according to the verify parameter.
- Reads your Identity Services Engine debug from environment variable IDENTITY\_SERVICES\_ENGINE\_DEBUG. Boolean, it controls whether to log information about Identity Services Engine APIs' request and response process.
- Wraps and represents all Identity Services Engine API calls as a simple hierarchical tree of native-Python methods (with default arguments provided everywhere possible!)
- If your Python IDE supports **auto-completion** (like [PyCharm](#)), you can navigate the available methods and object attributes right within your IDE
- Represents all returned JSON objects as native Python objects - you can access all of the object's attributes using native *dot.syntax*
- **Automatic Rate-Limit Handling** Sending a lot of requests to Identity Services Engine? Don't worry; we have you covered. Identity Services Engine will respond with a rate-limit response, which will automatically be caught and "handled" for you. Your requests and script will automatically be "paused" for the amount of time specified by Identity Services Engine, while we wait for the Identity Services Engine rate-limit timer to cool down. After the cool-down, your request will automatically be retried, and your script will continue to run as normal. Handling all of this requires zero (0) changes to your code - you're welcome.

Just know that if you are sending a lot of requests, your script might take longer to run if your requests are getting rate limited.

- **Automatic CSRF token management** Identity Services Engine will send a get request to fetch the X-CSRF-Token for you before performing a POST/PUT/DELETE operation, and it will update the X-CSRF-Token of that operation with the new token. It will try to be smart about it and not perform the fetch operation if one is already present and valid.

All of this, combined, lets you do powerful things simply:

```

from ciscoisesdk import IdentityServicesEngineAPI
from ciscoisesdk.exceptions import ApiError

api_ = IdentityServicesEngineAPI(username='admin', password='Cisco12345')

# Get allowed protocols
search_result = api_.allowed_protocols.get_all().response.SearchResult
if search_result and search_result.resources:
    for resource in search_result.resources:
        resource_detail = api_.allowed_protocols.get_by_id(resource.id).response.
↪AllowedProtocols
        print("Id {}\\nName {}\\nallowChap {}\\n".format(resource_detail.id, resource_detail.
↪name, resource_detail.allowChap))

```

(continues on next page)

(continued from previous page)

```

# Filter network device
device_list_response = api_.network_device.get_all(filter='name.EQ.ISE_EST_Local_Host_
↳19')
device_responses = device_list_response.response.SearchResult.resources
device_response = device_responses[0]

# Get network device detail
device_response_detail = api_.network_device.get_by_id(device_response.id).response.
↳NetworkDevice

# Delete network device
delete_device = api_.network_device.delete_by_id(device_response.id)

# Create network device
try:
    network_device_response = api_.network_device.create(name='ISE_EST_Local_Host_19',
↳ network_device_ip_list=[{"ipaddress": "127.35.0.1", "mask": 32}])
    print("Created, new Location {}".format(network_device_response.headers.Location))
except api_.Error as e:
    print(e)

```

Head over to the [Quickstart](#) page to begin working with the **Identity Services Engine APIs in native Python!**

## 1.2.2 MIT License

ciscoisesdk is currently licensed under the [MIT Open Source License](#), and distributed as a source distribution (no binaries) via *PyPI*, and the complete *source code* is available on GitHub.

## 1.2.3 ciscoisesdk License

### MIT License

Copyright (c) 2021 Cisco and/or its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*Copyright (c) 2021 Cisco and/or its affiliates.*

## 1.3 Quickstart

*Dive in!* ... to get started using the ciscoisesdk package:

Make sure that you have:

- ciscoisesdk *installed*
- ciscoisesdk *upgraded to the latest version*

### 1.3.1 Pass your Identity Services Engine Access Token

To interact with the Identity Services Engine APIs, you must have a **Identity Services Engine Access Token**. A Identity Services Engine Access Token is how the Identity Services Engine APIs validate access and identify the requesting user.

As a *best practice*, you can store your Identity Services Engine ‘credentials’ as an environment variables in your development or production environment.

By default, ciscoisesdk will look for the following environment variables to create new connection objects:

- `IDENTITY_SERVICES_ENGINE_DEBUG` - Tells the SDK whether to log request and response information. Useful for debugging and seeing what is going on under the hood. Defaults to False.
- `IDENTITY_SERVICES_ENGINE_VERSION` - Identity Services Engine API version to use. Defaults to ‘3.1\_Patch\_1’.
- `IDENTITY_SERVICES_ENGINE_ENCODED_AUTH` - It takes priority. It is the *username:password* encoded in base 64. For example ‘ZGV2bmV0dXNlcjpaXNjbzEyMyEK’ which decoded is ‘devnetuser:Cisco123!’
- `IDENTITY_SERVICES_ENGINE_USERNAME` - HTTP Basic Auth username.
- `IDENTITY_SERVICES_ENGINE_PASSWORD` - HTTP Basic Auth password.
- `IDENTITY_SERVICES_ENGINE_USES_API_GATEWAY` - Enables or disables the usage of the API Gateway. Defaults to True.
- `IDENTITY_SERVICES_ENGINE_USES_CSRF_TOKEN` - Enables or disables the usage of X-CSRF-Token. Defaults to False.
- `IDENTITY_SERVICES_ENGINE_BASE_URL` - The base URL to be prefixed to the individual API endpoint suffixes. It is used if the `IDENTITY_SERVICES_ENGINE_USES_API_GATEWAY` is True. Defaults to ‘<https://dcloud-dna-ise-rtp.cisco.com>’.
- `IDENTITY_SERVICES_ENGINE_UI_BASE_URL` - The UI base URL to be prefixed to the individual ISE UI API endpoint suffixes. It is used if the `IDENTITY_SERVICES_ENGINE_USES_API_GATEWAY` is False.
- `IDENTITY_SERVICES_ENGINE_ERS_BASE_URL` - The ERS base URL to be prefixed to the individual ISE ERS API endpoint suffixes. It is used if the `IDENTITY_SERVICES_ENGINE_USES_API_GATEWAY` is False.
- `IDENTITY_SERVICES_ENGINE_MNT_BASE_URL` - The MNT base URL to be prefixed to the individual ISE MNT API endpoint suffixes. It is used if the `IDENTITY_SERVICES_ENGINE_USES_API_GATEWAY` is False.
- `IDENTITY_SERVICES_ENGINE_PX_GRID_BASE_URL` - The `PX_GRID` base URL to be prefixed to the individual ISE `PX_GRID` API endpoint suffixes. It is used if the `IDENTITY_SERVICES_ENGINE_USES_API_GATEWAY` is False.
- `IDENTITY_SERVICES_ENGINE_SINGLE_REQUEST_TIMEOUT` - Timeout (in seconds) for RESTful HTTP requests. Defaults to 60.

- `IDENTITY_SERVICES_ENGINE_WAIT_ON_RATE_LIMIT` - Enables or disables automatic rate-limit handling. Defaults to True.
- `IDENTITY_SERVICES_ENGINE_VERIFY` - Controls whether to verify the server's TLS certificate or not. Defaults to True.

However, you choose to set it, if you have `IDENTITY_SERVICES_ENGINE_VERSION`, `IDENTITY_SERVICES_ENGINE_USERNAME` and `IDENTITY_SERVICES_ENGINE_PASSWORD`, or `IDENTITY_SERVICES_ENGINE_VERSION` and `IDENTITY_SERVICES_ENGINE_ENCODED_AUTH` environment variables, you are good to go. `ciscoisesdk` will use them to create your access token when creating new *IdentityServicesEngineAPI* objects.

If you don't want to set your credentials as environment variables, you can manually provide them as parameters when creating a *IdentityServicesEngineAPI* object.

---

**Note:** The `ciscoisesdk` assumes that the ERS APIs and OpenAPIs are enabled. If `uses_api_gateway` is True, the `ciscoisesdk` assumes that your ISE API Gateway is enabled as well.

---

### 1.3.2 Set credentials as environment variables

There are many places and diverse ways that you can set an environment variable, which can include:

- A setting within your development IDE
- A setting in your container / PaaS service
- A statement in a shell script that configures and launches your app

It can be as simple as setting it in your CLI before running your script...

```
$ IDENTITY_SERVICES_ENGINE_USERNAME=your_username_here
$ IDENTITY_SERVICES_ENGINE_PASSWORD=your_password_here
$ python myscript.py
```

...or putting your credentials in a shell script that you `source` when your shell starts up or before you run a script:

```
$ cat mycredentials.sh
export IDENTITY_SERVICES_ENGINE_ENCODED_AUTH=your_encoded_auth_here
$ source mycredentials.sh
$ python myscript.py
```

### 1.3.3 Create a *IdentityServicesEngineAPI* “Connection Object”

To make interacting with the Identity Services Engine APIs as simple and intuitive as possible, all of the APIs have ‘wrapped’ underneath a single interface. To get started, import the *IdentityServicesEngineAPI* class and create an API “connection object”.

```
>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> api = IdentityServicesEngineAPI()
```

As discussed above (*Pass your Identity Services Engine Access Token*), `ciscoisesdk` defaults to pulling from environment variables to generate your access token. If you do not have those environment variables set and you try to create a new *IdentityServicesEngineAPI* object without providing them, a *AccessTokenError* will be raised (a *ciscoisesdkException* subclass).

```
>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> api = IdentityServicesEngineAPI()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "ciscoisesdk/api/__init__.py", line 356, in __init__
    raise AccessTokenError(error_message)
AccessTokenError: You need an access token to interact with the Identity Services_
↳Engine
APIs. Identity Services Engine uses HTTP Basic Auth to create an access
token. You must provide the username and password or just
the encoded_auth, either by setting each parameter or its
environment variable counterpart (IDENTITY_SERVICES_ENGINE_USERNAME,
IDENTITY_SERVICES_ENGINE_PASSWORD, IDENTITY_SERVICES_ENGINE_ENCODED_AUTH).
```

If you don't provide a known version and try to create a new *IdentityServicesEngineAPI*, a *VersionError* will be raised.

```
>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> api = IdentityServicesEngineAPI(username='devnetuser',
                                   password='Cisc0123!',
                                   base_url='https://dcloud-dna-ise-rtp.cisco.com',
                                   version='0.1.12')
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "ciscoisesdk/api/__init__.py", line 344, in __init__
    raise VersionError(error_message)
VersionError: Unknown API version, known versions are 3.1.0, 3.1.1 and 3.1_Patch_1.
```

Use the arguments to manually provide enough information for the HTTP Basic Auth process, when creating a new *IdentityServicesEngineAPI* connection object.

```
>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> # Create a IdentityServicesEngineAPI connection object;
>>> # Using encoded_auth, with Identity Services Engine API version 3.1_Patch_1
>>> api = IdentityServicesEngineAPI(encoded_auth='YWRtaW46QzFzY28xMjMONQo=',
...                                   base_url="https://dcloud-dna-ise-rtp.cisco.com",
...                                   version='3.1_Patch_1',
...                                   uses_api_gateway=True,
...                                   uses_csrf_token=True)
>>> # Create a IdentityServicesEngineAPI connection object;
>>> # Using username, and password, with ISE API version 3.1_Patch_1
>>> api = IdentityServicesEngineAPI(username='admin', password='C1sco12345',
...                                   uses_api_gateway=True,
...                                   base_url="https://dcloud-dna-ise-rtp.cisco.com",
...                                   version='3.1_Patch_1',
...                                   uses_csrf_token=True)
```

Use the arguments to provide the URLs required depending on the `uses_api_gateway` value.

---

**Note:** If `uses_api_gateway` is `True`, the `ciscoisesdk` assumes that your ISE API Gateway is enabled.

---



---

**Note:** If `uses_csrf_token` is `True`, the `ciscoisesdk` assumes that your ISE CSRF Check is enabled. Furthermore, it assumes you need the `ciscoisesdk` to manage the CSRF token automatically for you.

---

```

>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> # Create a IdentityServicesEngineAPI connection object;
>>> # Using API Gateway (since it was enabled on ISE)
>>> # Using CSRF Token (since the CSRF Check was enabled on ISE)
>>> api = IdentityServicesEngineAPI(username='admin',
...                               password='C1sco12345',
...                               uses_api_gateway=True,
...                               uses_csrf_token=True,
...                               base_url='https://dcloud-dna-ise-rtp.cisco.com',
...                               version='3.1_Patch_1',
...                               verify=True)
>>> # Not using API Gateway
>>> # Not using CSRF Token
>>> api = IdentityServicesEngineAPI(username='devnetuser', password='Cisco123!',
...                               uses_api_gateway=False,
...                               uses_csrf_token=False,
...                               ers_base_url="https://dcloud-dna-ise-rtp.cisco.
↪com:9060",
...                               ui_base_url="https://dcloud-dna-ise-rtp.cisco.
↪com:443",
...                               mnt_base_url="https://dcloud-dna-ise-rtp.cisco.
↪com:443",
...                               px_grid_base_url="https://dcloud-dna-ise-rtp.
↪cisco.com:8910",
...                               version='3.1_Patch_1')

```

Note that this can be very useful if you are reading authentication credentials from a file or database and/or when you want to create more than one connection object.

```

>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> kingston_auth = 'ZG5hY2VudGVydXNlcjpdDaXNjbzEyMyEK'
>>> london_auth = ('london', 'rcx0cf43!')
>>> kingston_api = IdentityServicesEngineAPI(encoded_auth=kingston_auth, base_url=
↪ "https://dcloud-dna-ise-rtp.cisco.com", version='3.1_Patch_1')
>>> london_api = IdentityServicesEngineAPI(*london_auth, base_url="https://128.107.71.
↪ 199:443",
...                                       version='3.1_Patch_1', uses_api_
↪ gateway=True) # * Unpacks tuple

```

### 1.3.4 CSRF Token Check

If `uses_csrf_token` is `True`, the `ciscoisesdk` assumes that your ISE CSRF Check is enabled. Furthermore, it presumes you need the `ciscoisesdk` to manage the CSRF token **automatically** for you.

If `uses_csrf_token` is `False`, the `ciscoisesdk` assumes that your ISE CSRF Check is disabled. Additionally, it supposes you do not need the `ciscoisesdk` to send CSRF token for POST/PUT/DELETE operations. In this case, you could still do it manually like in the following code fragment:

```

>>> endpoint_id_to_delete = "be46f4f0-932f-11ec-aa4c-8e0da8a23ad8"
>>> get_request = api.endpoint.get_version(headers={"X-CSRF-Token": "fetch"})
>>> r2 = api.endpoint.delete_by_id(id=endpoint_id_to_delete,
...                               headers={"X-CSRF-Token": get_request.headers["X-
↪ CSRF-Token"]})

```

### 1.3.5 API Gateway

If `uses_api_gateway` is `True`, the `ciscoisesdk` assumes that the API Gateway is enabled.

If `uses_api_gateway` is `True` you only need to set your `base_url`.

If `uses_api_gateway` is `False` you need to set the `ers_base_url`, `ui_base_url`, `mnt_base_url` and `px_grid_base_url`.

#### Warning:

1. Ensure that you have enabled the ERS APIs and OpenAPIs.
2. Make sure to check the ISE settings for the API Gateway, and set the `uses_api_gateway` accordingly.

If you don't provide the URLs necessary and try to create a new `IdentityServicesEngineAPI`, a `TypeError` will be raised.

```
>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> # Create a IdentityServicesEngineAPI connection object;
>>> # it uses Identity Services Engine username and password, with ISE API version 3.
↪ 1_Patch_1
>>> # The base_url used by default is `from ciscoisesdk.config import DEFAULT_BASE_
↪ URL`
>>> api = IdentityServicesEngineAPI(username='admin',
...                               password='C1sco12345',
...                               uses_api_gateway=True,
...                               base_url=None,
...                               version='3.1_Patch_1',
...                               verify=True)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
    api = IdentityServicesEngineAPI(username='admin',
  File "ciscoisesdk/api/__init__.py", line 336, in __init__
    File "ciscoisesdk/utils.py", line 165, in check_type
TypeError: We were expecting to receive an instance of one of the following types:
'basestring'; but instead we received None which is a 'NoneType'.
```

```
>>> # Other way to create IdentityServicesEngineAPI connection object; if it does not
↪ use the API Gateway
>>> api = IdentityServicesEngineAPI(username='devnetuser', password='Cisco123!',
...                               uses_api_gateway=False,
...                               ers_base_url="https://dcloud-dna-ise-rtp.cisco.
↪ com:9060",
...                               ui_base_url="https://dcloud-dna-ise-rtp.cisco.
↪ com:443",
...                               mnt_base_url="https://dcloud-dna-ise-rtp.cisco.
↪ com:443",
...                               # px_grid_base_url="https://dcloud-dna-ise-rtp.
↪ cisco.com:8910",
...                               version='3.1_Patch_1')
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
    api = IdentityServicesEngineAPI(username='admin',
  File "ciscoisesdk/api/__init__.py", line 341, in __init__
    File "ciscoisesdk/utils.py", line 165, in check_type
TypeError: We were expecting to receive an instance of one of the following types:
'basestring'; but instead we received None which is a 'NoneType'.
```

### 1.3.6 Certificates

Besides username, password, encoded\_auth, base\_url, and version, there are other parameters when creating the *IdentityServicesEngineAPI*, many of them have a default value (check *Package Constants* for more).

When dealing with certificates, the most important one is the `verify` parameter.

To avoid getting errors like the following:

```
>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> own_api = IdentityServicesEngineAPI(encoded_auth='dXN1cm5hbWU6cGFzc3dvcmQK',
... base_url="https://128.107.71.199:443", version='3.1_Patch_1', uses_api_
↳ gateway=True)
requests.exceptions.SLError: HTTPConnectionPool(host='128.107.71.199', port=443):
Max retries exceeded with url: /dna/system/api/v1/auth/token (Caused by
SSLError (SSLCertVerificationError(1, '[SSL: CERTIFICATE_VERIFY_FAILED] certificate
verify failed: self signed certificate in certificate chain (_ssl.c:1076)'))))
>>>
```

Include the `verify` parameter and set it to `False`:

```
>>> from ciscoisesdk import IdentityServicesEngineAPI
>>> own_api = IdentityServicesEngineAPI(encoded_auth='dXN1cm5hbWU6cGFzc3dvcmQK',
... base_url="https://128.107.71.199:443", version='1.3.0',
... verify=False)
InsecureRequestWarning: Unverified HTTPS request is being made. Adding certificate
verification is strongly advised. See: https://urllib3.readthedocs.io/en/latest/
↳ advanced-usage.html#ssl-warnings
InsecureRequestWarning)
>>>
```

You will see `urllib3` warnings instead. If you want to disable them, the easiest way is with:

```
>>> import urllib3
>>> urllib3.disable_warnings()
```

### 1.3.7 Package Constants

The following are the default values pulled from `ciscoisesdk.config` and used when creating the connection object.

**DEFAULT\_DEBUG = 'False'**

`debug` default value.

**DEFAULT\_VERSION = '3.1\_Patch\_1'**

`version` default value.

**DEFAULT\_BASE\_URL = 'https://dcloud-dna-ise-rtp.cisco.com'**

`base_url` default value.

**DEFAULT\_SINGLE\_REQUEST\_TIMEOUT = 60**

`single_request_timeout` default value. Timeout (in seconds) for the RESTful HTTP requests.

**DEFAULT\_WAIT\_ON\_RATE\_LIMIT = True**

`wait_on_rate_limit` default value. Enables or disables automatic rate-limit handling.

**DEFAULT\_VERIFY = True**

`verify` default value. Controls whether to verify the server's TLS certificate or not.



**DEFAULT\_USES\_API\_GATEWAY = True**

`uses_api_gateway` default value. Controls whether ISE use the gateway or not.

**DEFAULT\_USES\_CSRF\_TOKEN = False**

`uses_csrf_token` default value. Controls wheter we send the X-CSRF-Token to ISE' ERS APIs.

## 1.3.8 Making API Calls

Now that you have created a `IdentityServicesEngineAPI` “connection object,” you are ready to start making API calls.

```
>>> api.network_device.get_all(page=1, size=3).response.SearchResult.resources
[{'id': '4969bc30-ad2a-11eb-95af-f263cf05f605',
  'name': 'ISE_EST_Local_Host_19',
  'description': '',
  'link': {'rel': 'self',
  'href': 'https://198.18.133.27/ers/config/networkdevice/4969bc30-ad2a-11eb-95af-
↪f263cf05f605',
  'type': 'application/json'}},
{'id': 'a56f6360-a9fe-11eb-95af-f263cf05f605',
  'name': 'ISE_EST_Local_Host_92348',
  'description': '',
  'link': {'rel': 'self',
  'href': 'https://198.18.133.27/ers/config/networkdevice/a56f6360-a9fe-11eb-95af-
↪f263cf05f605',
  'type': 'application/json'}},
{'id': '2ea03580-aa02-11eb-95af-f263cf05f605',
  'name': 'Test_Device_4',
  'description': '',
  'link': {'rel': 'self',
  'href': 'https://198.18.133.27/ers/config/networkdevice/2ea03580-aa02-11eb-95af-
↪f263cf05f605',
  'type': 'application/json'}}]
```

It really is that easy.

All of the calls have been wrapped and represented as native Python method calls, like `IdentityServicesEngineAPI.network_device.get_all()` which gets the network devices summaries for the Cisco ISE ERS - see the [Network Device - Get All](#) API endpoint documentation.

As you can see, we have represented the API endpoints using simple terms that are aligned with the API docs; for example, representing the `/ers/config/networkdevice` API endpoint as a `network_device.get_network_device()` method available underneath the `IdentityServicesEngineAPI` connection object.

A full list of the available API methods, with their descriptions and parameters, is available in the [User API Doc](#).

A summary of the structure is available for each version supported

- [v3.1.0](#)
- [v3.1.1](#)
- [v3.1\\_Patch\\_1](#)

You can easily access and call any of these methods directly from your `IdentityServicesEngineAPI` connection object:

```
>>> api.network_access_policy_set.get_all().response.response
[{'default': False,
  'id': 'f22b6a01-759b-47e2-99ea-2e062abdb6ed',
  'name': 'Test Policy Set 1',
  'description': 'Test Policy Set',
  'hitCounts': 0,
  'rank': 0,
  'state': 'enabled',
  'condition': {'link': None,
  'conditionType': 'ConditionReference',
  'isNegate': False,
  'name': 'My New Condition',
  'id': '92bba708-1df6-4f03-9d40-d28b4cb2d982',
  'description': 'New optional Description'},
  'serviceName': 'Default Network Access',
  'isProxy': False,
  'link': {'rel': 'self',
  'href': 'https://198.18.133.27/api/v1/policy/network-access/policy-set/f22b6a01-
↪759b-47e2-99ea-2e062abdb6ed',
  'type': 'application/json'}}]
```

### 1.3.9 Catching Exceptions

If something should go wrong with the API call, an exception will be raised. `ApiError` exceptions are raised when an error condition is returned from the Identity Services Engine cloud. Details will be provided in the error message.

```
>>> from ciscoisesdk import IdentityServicesEngineAPI, ApiError
>>> api = IdentityServicesEngineAPI(username='devnetuser', password='Cisco123!')
>>> # The uses_api_gateway is True by default and the base_url used by default is_
↪`from ciscoisesdk.config import DEFAULT_BASE_URL`
>>> network_device_response = api.network_device.create_network_device(name='ISE_EST_
↪Local_Host_19', network_device_iplist=[{"ipaddress": "127.35.0.1", "mask": 32}])
-----
ApiError                                Traceback (most recent call last)
<ipython-input-71-afadb5c98c43> in <module>
----> 1 network_device_response = api.network_device.create_network_device(name='ISE_
↪EST_Local_Host_19', network_device_iplist=[{"ipaddress": "127.35.0.1", "mask": 32}])
      2
ciscoisesdk/misc.py in check_response_code(response, expected_response_code)
      63         raise RateLimitError(response)
      64     else:
--> 65         raise ApiError(response)
      66
ApiError: [400] - The request was invalid or cannot be otherwise served.
{
  "ERSResponse" : {
    "operation" : "POST-create-networkdevice",
    "messages" : [ {
      "title" : "Network Device Create failed: Device Name Already Exist",
      "type" : "ERROR",
      "code" : "Application resource validation exception"
    } ],
    "link" : {
      "rel" : "related",
      "href" : "https://198.18.133.27/ers/config/networkdevice",
      "type" : "application/xml"
```

(continues on next page)

(continued from previous page)

```

    }
  }
}
>>>

```

You can catch any errors returned by the Identity Services Engine cloud by catching `ApiError` exceptions in a try-except block.

```

>>> from ciscoisesdk.exceptions import ApiError
>>> try:
...     network_device_response = api.network_device.create_network_device(name='ISE_
↳EST_Local_Host_19', network_device_iplist=[{"ipaddress": "127.35.0.1", "mask": 32}])
... except ApiError as e:
...     print(e)
ApiError: [400] - The request was invalid or cannot be otherwise served.
{
  "ERSResponse" : {
    "operation" : "POST-create-networkdevice",
    "messages" : [ {
      "title" : "Network Device Create failed: Device Name Already Exist",
      "type" : "ERROR",
      "code" : "Application resource validation exception"
    } ],
    "link" : {
      "rel" : "related",
      "href" : "https://198.18.133.27/ers/config/networkdevice",
      "type" : "application/xml"
    }
  }
}
>>>

```

ciscoisesdk will also raise a number of other standard errors (`TypeError`, `ValueError`, etc.); however, these errors are usually caused by incorrect use of the package or methods and should be sorted while debugging your app.

### 1.3.10 Working with Returned Objects

The Identity Services Engine cloud returns data objects in JSON format, like so:

```

[
  {
    "default": false,
    "id": "f22b6a01-759b-47e2-99ea-2e062abdb6ed",
    "name": "Test Policy Set 1",
    "description": "Test Policy Set",
    "hitCounts": 0,
    "rank": 0,
    "state": "enabled",
    "condition": {
      "link": null,
      "conditionType": "ConditionReference",
      "isNegate": false,
      "name": "My New Condition",
      "id": "92bba708-1df6-4f03-9d40-d28b4cb2d982",
      "description": "New optional Description"
    }
  }
]

```

(continues on next page)

(continued from previous page)

```

    },
    "serviceName": "Default Network Access",
    "isProxy": false,
    "link": {
        "rel": "self",
        "href": "https://198.18.133.27/api/v1/policy/network-access/policy-set/f22b6a01-
↪759b-47e2-99ea-2e062abdb6ed",
        "type": "application/json"
    }
}
]

```

Sure, JSON data objects can easily be parsed and represented in Python using dictionaries, but when working with an ‘object’ wouldn’t it be nice to be able to work with it like an object - using native object syntax (like accessing attributes using ‘.’ notation)? ciscoisesdk enables you to do just that:

```

>>> policy_set = api.network_access_policy_set.get_all().response.response
>>> policy_set[0].id
'f22b6a01-759b-47e2-99ea-2e062abdb6ed'
>>> policy_set[0].condition.conditionType
'ConditionReference'
>>> policy_set[0].condition.name
'My New Condition'

```

Representing and treating Identity Services Engine data objects as Python data objects, can really help clean up your code and make coding easier:

1. You don’t need to create variables to hold all the data attributes, just use the attributes available underneath the data object.

```

>>> # Do this
>>> device_list_response = api.network_device.get_all(filter='name.EQ.ISE_EST_
↪Local_Host_19')
>>> device_response = device_list_response.response.SearchResult.resources[0]
>>> device_response_detail = api.network_device.get_by_id(device_response.id).
↪response.NetworkDevice

>>> # or even this
>>> filter_query = 'name.EQ.ISE_EST_Local_Host_19'
>>> device_response_id = api.network_device.get_all(filter=filter_query).response.
↪SearchResult.resources[0].id
>>> device_response_detail = api.network_device.get_by_id(device_response_id).
↪response.NetworkDevice

```

2. When accessing ‘optional’ attributes, like `device_list_response.response.SearchResult.resources[0].id` attribute of Identity Services Engine NetworkDevice object, the response object will return None when the attribute is not present and will return the attribute’s value when it is present. This avoids some boiler plate code and/or needless exception handling, when working with optional attributes.

```

>>> devices_response = api.network_device.get_all().response
>>> # Instead of doing this
>>> if hasattr(devices_response, 'SearchResult') and hasattr(devices_response.
↪SearchResult, 'resources'):
...     devices = devices_response.SearchResult.resources
...     for d in devices:
...         if hasattr(d, 'id') and hasattr(d, 'description'):

```

(continues on next page)

(continued from previous page)

```

...         # Do something with the configList attribute
...         print(d.id, d.description)
>>> # Or this
... try:
...     devices = devices_response.SearchResult.resources
... except AttributeError as e:
...     pass
... for d in devices:
...     # Do something with the configList attribute
...     print(d.id, d.description)
... except AttributeError as e:
...     pass
>>> # You can do this, which is cleaner
>>> if devices_response.SearchResult and devices_response.SearchResult.resources:
...     for d in devices_response.SearchResult.resources:
...         if d.id and d.description:
...             # Do something with the configList attribute
...             print(d.id, d.description)

```

3. It just feels more *natural*. :-) When iterating through sequences, and working with objects in those sequences (see the next section), working with objects as objects is definitely more Pythonic.

**The Zen of Python (PEP 20):** “Beautiful is better than ugly.” “Simple is better than complex.”

The currently modeled *Identity Services Engine Data Object* with its functions, is available [here](#) in the *User API Doc*.

#### What if Identity Services Engine adds new data attributes?

Attribute access WILL WORK for the newly added attributes (yes, without a package update!). ciscoisesdk is written to automatically take advantage of new attributes and data as they are returned.

### 1.3.11 Configuring Logging for ciscoisesdk

The main ciscoisesdk logger is ciscoisesdk.

Other loggers are ciscoisesdk.exceptions, ciscoisesdk.restsession and ciscoisesdk.api.custom\_caller.

The ciscoisesdk adds only the logging.NullHandler following the [logging recommendations for libraries](#)

So you can add your logging handlers according to your needs.

```

import logging
import warnings
from ciscoisesdk import IdentityServicesEngineAPI

# Another way to disable warnings caused by (verify=False)
warnings.filterwarnings('ignore', message='Unverified HTTPS request')

logger = logging.getLogger('simple_example')
logger.setLevel(logging.DEBUG)
# create console handler and set level to debug
ch = logging.StreamHandler()
# create formatter
formatter = logging.Formatter('%(asctime)s - %(name)s - %(levelname)s - %(message)s')
# add formatter to ch
ch.setFormatter(formatter)
# add ch to logger
logger.addHandler(ch)

```

(continues on next page)

(continued from previous page)

```

ch_ = logging.StreamHandler()
api = IdentityServicesEngineAPI(verify=False, debug=True)
logging.getLogger('ciscoisesdk').addHandler(ch_)

logger.debug('simple message')
api.network_device.get_all().response

```

### 1.3.12 Adding API call definitions

Custom caller functions help you:

1. Add support for custom API calls.
2. Add support for API calls that are/were not documented when the SDK was released.

```

from ciscoisesdk import api

# Create a IdentityServicesEngineAPI connection object;
# it uses Identity Services Engine sandbox URL, username and password, with Identity_
↪ Services Engine API version 3.1_Patch_1.,
# and requests to verify the server's TLS certificate with verify=True.
api_ = api.IdentityServicesEngineAPI(username="devnetuser",
    password="Cisco123!",
    base_url="https://dcloud-dna-ise-rtp.cisco.com",
    version='3.1_Patch_1',
    verify=True
)

# Add your custom API call to the connection object.
# Define the get_hotspotportal function.
# Call it with:
#     get_hotspotportal(params={'filter': 'name.EQ.Hotspot Guest Portal'})
def get_hotspotportal(params):
    return api_.custom_caller.call_api('GET', '/ers/config/hotspotportal', params)

# Add your custom API call to the connection object.
# Define the delete_hotspotportal_by_id function
# under the custom_caller wrapper.
# Call it with:
#     api_.custom_caller.delete_hotspotportal_by_id('be456g16-14fd-4cac-94b7-ac3b8f9f
↪ ')
api_.custom_caller.add_api('delete_hotspotportal_by_id',
    lambda _id:
        api_.custom_caller.call_api(
            'DELETE',
            '/ers/config/hotspotportal/{id}',
            path_params={
                'id': _id,
            })
        )

# Advance usage example using Custom Caller functions.
def setup_custom():
    """
    Defines the get_hotspotportal_by_id and delete_hotspotportal_by_id functions

```

(continues on next page)

(continued from previous page)

```

under the custom_caller wrapper, and with help documentation
in two different ways.

Check that they have been added with
'get_hotspotportal_by_id' in dir(api_.custom_caller)
'delete_hotspotportal_by_id' in dir(api_.custom_caller)

Quickly check that you indeed have them as functions with
type(getattr(api_.custom_caller, 'get_hotspotportal_by_id'))
type(getattr(api_.custom_caller, 'delete_hotspotportal_by_id'))

Check the documentation with
help(api_.custom_caller.get_hotspotportal_by_id)
help(api_.custom_caller.delete_hotspotportal_by_id)

"""

# Alternative 1: Definition with helper function.
def _get_hotspotportal_by_id(_id):
    """Custom hostport portal API call, returns response attribute

    Args:
        _id(str): Hostport portal id.

    Returns:
        RestResponse: REST response with following properties:
            - headers(MyDict): response headers.
            - response(MyDict): response body as a MyDict object. Access the_
↪object's properties by using the dot notation
              or the bracket notation.
            - content(bytes): representation of the request's response
            - text(str): representation of the request's response

    """
    return api_.custom_caller.call_api(
        'GET',
        '/ers/config/hotspotportal/{id}',
        path_params={
            'id': _id,
        })

# Finally add the function as an attribute.
api_.custom_caller.add_api('get_hotspotportal_by_id', _get_hotspotportal_by_id)

# Alternative 2: Definition with lambda function.
api_.custom_caller.add_api('delete_hotspotportal_by_id',
    lambda _id:
        api_.custom_caller.call_api(
            'DELETE',
            '/ers/config/hotspotportal/{id}',
            path_params={
                'id': _id,
            })
        )

# Finally add the documentation
api_.custom_caller.delete_hotspotportal_by_id.__doc__ = """
    Custom global credential API call to delete hostport portal

    Args:

```

(continues on next page)

(continued from previous page)

```

        _id(str): Hostport portal id.

    Returns:
        RestResponse: REST response with following properties:
            - headers(MyDict): response headers.
            - response(MyDict): response body as a MyDict object. Access the object
            ↪'s properties by using the dot notation
              or the bracket notation.
            - content(bytes): representation of the request's response
            - text(str): representation of the request's response
    """

```

Check out the [Custom Caller](#) documentation to begin using it.

Copyright (c) 2021 Cisco and/or its affiliates.

## 1.4 User API Doc

### 1.4.1 IdentityServicesEngineAPI

The *IdentityServicesEngineAPI* class creates “connection objects” for working with the Identity Services Engine APIs and hierarchically organizes the Identity Services Engine APIs and their endpoints underneath these connection objects.

#### IdentityServicesEngineAPI summary structure

##### v3.1.0 summary

|                                  |   |  |
|----------------------------------|---|--|
| <i>IdentityServicesEngineAPI</i> | <i>aci_bindings</i>   | <i>get_aci_bindings()</i>  |
|                                  | <i>aci_settings</i>   | <i>get_aci_settings()</i>  |
|                                  | <i>active_directory</i>   | <i>create_active_directory()</i>   |
|                                  | <i>admin_user</i>   | <i>get_admin_user_by_id()</i>  |
|                                  | <i>allowed_protocols</i>  | <i>create_allowed_protocols()</i>  |
|                                  | <i>anc_endpoint</i>   | <i>apply_anc_endpoint()</i>  |
|                                  | <i>anc_policy</i>   | <i>bulk_request_for_anc_policy()</i>                                       |
|                                  | <i>authentication</i>   | <i>authentication_api()</i>  |
|                                  | <i>authorization_profile</i>                                      | <i>create_authorization_profile()</i>                                      |
|                                  | <i>backup_and_restore</i>   | <i>cancel_backup()</i>   |
|                                  | <i>byod_portal</i>  | <i>create_byod_portal()</i>  |
|                                  | <i>certificate_profile</i>  | <i>create_certificate_profile()</i>  |
|                                  | <i>certificate_template</i>                                       | <i>get_certificate_template()</i>  |
|                                  | <i>certificates</i>   | <i>bind_csr()</i> <i>delete_certificate()</i>                              |
|                                  | <i>clear_threats_and_vulnerabilities</i>                          | <i>clear_threats_and_vulnerabilities()</i>                                 |
|                                  | <i>consumer</i>   | <i>access_secret()</i>   |
|                                  | <i>custom_caller</i>  | <i>add_api()</i> <i>call_api()</i>   |
|                                  | <i>device_administration_authentication_rules</i>                 | <i>create_device_administration_authentication_rules()</i>                 |
|                                  | <i>device_administration_authorization_exception_rules</i>        | <i>create_device_administration_authorization_exception_rules()</i>        |
|                                  | <i>device_administration_authorization_global_exception_rules</i> | <i>create_device_administration_authorization_global_exception_rules()</i> |
|                                  | <i>device_administration_authorization_rules</i>                  | <i>create_device_administration_authorization_rules()</i>                  |



|  |  |                             |
|--|--|-----------------------------|
|  | <i>device_administration_command_set</i>                   | <i>get_device_admin_co</i>  |
|  | <i>device_administration_conditions</i>                    | <i>create_device_admin</i>  |
|  | <i>device_administration_dictionary_attributes_list</i>    | <i>get_device_admin_di</i>  |
|  | <i>device_administration_identity_stores</i>               | <i>get_device_admin_id</i>  |
|  | <i>device_administration_network_conditions</i>            | <i>create_device_admin</i>  |
|  | <i>device_administration_policy_set</i>                    | <i>create_device_admin</i>  |
|  | <i>device_administration_profiles</i>                      | <i>get_device_admin_pr</i>  |
|  | <i>device_administration_service_names</i>                 | <i>get_device_admin_se</i>  |
|  | <i>device_administration_time_date_conditions</i>          | <i>create_device_admin</i>  |
|  | <i>downloadable_acl</i>                                    | <i>create_downloadable</i>  |
|  | <i>egress_matrix_cell</i>                                  | <i>bulk_request_for_eg</i>  |
|  | <i>endpoint</i>  | <i>bulk_request_for_en</i>  |
|  | <i>endpoint_certificate</i>                                | <i>create_endpoint_cer</i>  |
|  | <i>endpoint_identity_group</i>                             | <i>create_endpoint_gro</i>  |
|  | <i>external_radius_server</i>                              | <i>create_external_rad</i>  |
|  | <i>filter_policy</i>                                       | <i>create_filter_polic</i>  |
|  | <i>guest_location</i>                                      | <i>get_guest_location()</i> |
|  | <i>guest_smtp_notification_configuration</i>               | <i>create_guest_smtp_n</i>  |
|  | <i>guest_ssid</i>  | <i>create_guest_ssid()</i>  |
|  | <i>guest_type</i>  | <i>create_guest_type()</i>  |
|  | <i>guest_user</i>  | <i>approve_guest_user_</i>  |
|  | <i>hotspot_portal</i>                                      | <i>create_hotspot_port</i>  |
|  | <i>identity_groups</i>                                     | <i>create_identity_gro</i>  |
|  | <i>identity_sequence</i>                                   | <i>create_identity_seq</i>  |
|  | <i>internal_user</i>                                       | <i>create_internal_use</i>  |
|  | <i>ip_to_sgt_mapping</i>                                   | <i>bulk_request_for_ip</i>  |
|  | <i>ip_to_sgt_mapping_group</i>                             | <i>bulk_request_for_ip</i>  |
|  | <i>mdm</i>   | <i>get_endpoint_by_mac</i>  |
|  | <i>misc</i>  | <i>delete_all_sessions</i>  |
|  | <i>my_device_portal</i>                                    | <i>create_my_device_po</i>  |
|  | <i>native_suppliant_profile</i>                            | <i>delete_native_suppl</i>  |
|  | <i>nbar_app</i>  | <i>create_nbar_app() de</i> |
|  | <i>network_access_authentication_rules</i>                 | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_exception_rules</i>        | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_global_exception_rules</i> | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_rules</i>                  | <i>create_network_acce</i>  |
|  | <i>network_access_conditions</i>                           | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary</i>                           | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary_attribute</i>                 | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary_attributes_list</i>           | <i>get_network_access_</i>  |
|  | <i>network_access_identity_stores</i>                      | <i>get_network_access_</i>  |
|  | <i>network_access_network_conditions</i>                   | <i>create_network_acce</i>  |
|  | <i>network_access_policy_set</i>                           | <i>create_network_acce</i>  |
|  | <i>network_access_profiles</i>                             | <i>get_network_access_</i>  |
|  | <i>network_access_security_groups</i>                      | <i>get_network_access_</i>  |
|  | <i>network_access_service_names</i>                        | <i>get_network_access_</i>  |
|  | <i>network_access_time_date_conditions</i>                 | <i>create_network_acce</i>  |
|  | <i>network_device</i>                                      | <i>bulk_request_for_ne</i>  |
|  | <i>network_device_group</i>                                | <i>create_network_devi</i>  |
|  | <i>node_deployment</i>                                     | <i>delete_node() get_no</i> |

|  |   |   |
|--|---|---|
|  | <i>node_details</i>                         | <i>get_node_detail_by_</i>                                  |
|  | <i>node_group</i>                           | <i>create_node_group()</i>                                  |
|  | <i>pan_ha</i>                               | <i>disable_pan_ha()</i> <i>enable_pan_ha()</i>              |
|  | <i>portal</i>                               | <i>get_portal_by_id()</i> <i>get_portals()</i>              |
|  | <i>portal_global_setting</i>                | <i>get_portal_global_setting()</i>                          |
|  | <i>portal_theme</i>                         | <i>create_portal_theme()</i>                                |
|  | <i>profiler</i>                             | <i>get_profiles()</i>                                       |
|  | <i>profiler_profile</i>                     | <i>get_profiler_profile()</i>                               |
|  | <i>provider</i>                             | <i>authorization()</i> <i>register_provider()</i>           |
|  | <i>psn_node_details_with_radius_service</i> | <i>get_session_service()</i>                                |
|  | <i>pull_deployment_info</i>                 | <i>get_deployment_info()</i>                                |
|  | <i>px_grid_node</i>                         | <i>approve_px_grid_node()</i>                               |
|  | <i>px_grid_settings</i>                     | <i>autoapprove_px_grid_node()</i>                           |
|  | <i>radius_failure</i>                       | <i>get_failures()</i>                                       |
|  | <i>radius_server_sequence</i>               | <i>create_radius_server()</i>                               |
|  | <i>replication_status</i>                   | <i>get_node_replication_status()</i>                        |
|  | <i>repository</i>                           | <i>create_repository()</i>                                  |
|  | <i>restid_store</i>                         | <i>create_rest_id_store()</i>                               |
|  | <i>security_group_to_virtual_network</i>    | <i>bulk_request_for_security_group_to_virtual_network()</i> |
|  | <i>security_groups</i>                      | <i>bulk_request_for_security_groups()</i>                   |
|  | <i>security_groups_acls</i>                 | <i>bulk_request_for_security_group_acls()</i>               |
|  | <i>self_registered_portal</i>               | <i>create_self_registered_portal()</i>                      |
|  | <i>session_directory</i>                    | <i>get_session_by_ip_address()</i>                          |
|  | <i>sg_vn_mapping</i>                        | <i>bulk_create_sg_vn_mappings()</i>                         |
|  | <i>sms_provider</i>                         | <i>get_sms_provider()</i> <i>register_sms_provider()</i>    |
|  | <i>sponsor_group</i>                        | <i>create_sponsor_group()</i>                               |
|  | <i>sponsor_group_member</i>                 | <i>get_sponsor_group_member()</i>                           |
|  | <i>sponsor_portal</i>                       | <i>create_sponsor_portal()</i>                              |
|  | <i>sponsored_guest_portal</i>               | <i>create_sponsored_guest_portal()</i>                      |
|  | <i>support_bundle_download</i>              | <i>download_support_bundle()</i>                            |
|  | <i>support_bundle_status</i>                | <i>get_support_bundle_status()</i>                          |
|  | <i>support_bundle_trigger_configuration</i> | <i>create_support_bundle_trigger_configuration()</i>        |
|  | <i>sxp_connections</i>                      | <i>bulk_request_for_sxp_connections()</i>                   |
|  | <i>sxp_local_bindings</i>                   | <i>bulk_request_for_sxp_bindings()</i>                      |
|  | <i>sxp_vpns</i>                             | <i>bulk_request_for_sxp_vpns()</i>                          |
|  | <i>sync_ise_node</i>                        | <i>sync_node()</i>  |
|  | <i>system_certificate</i>                   | <i>create_system_certificate()</i>                          |
|  | <i>system_health</i>                        | <i>get_healths()</i> <i>get_health()</i>                    |
|  | <i>tacacs_command_sets</i>                  | <i>create_tacacs_command_set()</i>                          |
|  | <i>tacacs_external_servers</i>              | <i>create_tacacs_external_server()</i>                      |
|  | <i>tacacs_profile</i>                       | <i>create_tacacs_profile()</i>                              |
|  | <i>tacacs_server_sequence</i>               | <i>create_tacacs_server()</i>                               |
|  | <i>tasks</i>                                | <i>get_task_status()</i> <i>get_tasks()</i>                 |
|  | <i>telemetry_information</i>                | <i>get_telemetry_info()</i>                                 |
|  | <i>trust_sec_configuration</i>              | <i>get_egress_matrices()</i>                                |
|  | <i>trust_sec_sxp</i>                        | <i>get_bindings()</i>                                       |
|  | <i>version_and_patch</i>                    | <i>get_ise_version_and_patch()</i>                          |
|  | <i>version_info</i>                         | <i>get_version_info()</i>                                   |
|  | <i>virtual_network</i>                      | <i>bulk_create_virtual_networks()</i>                       |
|  | <i>vn_vlan_mapping</i>                      | <i>bulk_create_vn_vlan_mappings()</i>                       |

## v3.1.1 summary

|                                  |   |                              |
|----------------------------------|---|------------------------------|
| <i>IdentityServicesEngineAPI</i> | <i>aci_bindings</i>   | <i>get_aci_bindings()</i>    |
|                                  | <i>aci_settings</i>   | <i>get_aci_settings()</i>    |
|                                  | <i>active_directory</i>   | <i>create_active_directo</i> |
|                                  | <i>admin_user</i>   | <i>get_admin_user_by_i</i>   |
|                                  | <i>allowed_protocols</i>  | <i>create_allowed_prot</i>   |
|                                  | <i>anc_endpoint</i>   | <i>apply_anc_endpoint()</i>  |
|                                  | <i>anc_policy</i>   | <i>bulk_request_for_an</i>   |
|                                  | <i>authentication</i>   | <i>authentication_api()</i>  |
|                                  | <i>authorization_profile</i>                                      | <i>create_authorizatio</i>   |
|                                  | <i>backup_and_restore</i>   | <i>cancel_backup()</i>       |
|                                  | <i>byod_portal</i>  | <i>create_byod_portal()</i>  |
|                                  | <i>certificate_profile</i>  | <i>create_certificate_</i>   |
|                                  | <i>certificate_template</i>                                       | <i>get_certificate_tem</i>   |
|                                  | <i>certificates</i>   | <i>bind_csr()</i>            |
|                                  | <i>clear_threats_and_vulnerabilities</i>                          | <i>clear_threats_and_v</i>   |
|                                  | <i>consumer</i>   | <i>access_secret()</i>       |
|                                  | <i>custom_caller</i>  | <i>add_api()</i>             |
|                                  | <i>device_administration_authentication_rules</i>                 | <i>create_device_admin</i>   |
|                                  | <i>device_administration_authorization_exception_rules</i>        | <i>create_device_admin</i>   |
|                                  | <i>device_administration_authorization_global_exception_rules</i> | <i>create_device_admin</i>   |
|                                  | <i>device_administration_authorization_rules</i>                  | <i>create_device_admin</i>   |
|                                  | <i>device_administration_command_set</i>                          | <i>get_device_admin_co</i>   |
|                                  | <i>device_administration_conditions</i>                           | <i>create_device_admin</i>   |
|                                  | <i>device_administration_dictionary_attributes_list</i>           | <i>get_device_admin_di</i>   |
|                                  | <i>device_administration_identity_stores</i>                      | <i>get_device_admin_id</i>   |
|                                  | <i>device_administration_network_conditions</i>                   | <i>create_device_admin</i>   |
|                                  | <i>device_administration_policy_set</i>                           | <i>create_device_admin</i>   |
|                                  | <i>device_administration_profiles</i>                             | <i>get_device_admin_pr</i>   |
|                                  | <i>device_administration_service_names</i>                        | <i>get_device_admin_se</i>   |
|                                  | <i>device_administration_time_date_conditions</i>                 | <i>create_device_admin</i>   |
|                                  | <i>downloadable_acl</i>   | <i>create_downloadable</i>   |
|                                  | <i>egress_matrix_cell</i>   | <i>bulk_request_for_eg</i>   |
|                                  | <i>endpoint</i>   | <i>bulk_request_for_en</i>   |
|                                  | <i>endpoint_certificate</i>                                       | <i>create_endpoint_cer</i>   |
|                                  | <i>endpoint_identity_group</i>                                    | <i>create_endpoint_gro</i>   |
|                                  | <i>external_radius_server</i>                                     | <i>create_external_rad</i>   |
|                                  | <i>filter_policy</i>  | <i>create_filter_polic</i>   |
|                                  | <i>guest_location</i>   | <i>get_guest_location()</i>  |
|                                  | <i>guest_smtp_notification_configuration</i>                      | <i>create_guest_smtp_n</i>   |
|                                  | <i>guest_ssid</i>   | <i>create_guest_ssid()</i>   |
|                                  | <i>guest_type</i>   | <i>create_guest_type()</i>   |
|                                  | <i>guest_user</i>   | <i>approve_guest_user_</i>   |
|                                  | <i>hotspot_portal</i>   | <i>create_hotspot_port</i>   |
|                                  | <i>identity_groups</i>  | <i>create_identity_gro</i>   |
|                                  | <i>identity_sequence</i>  | <i>create_identity_seq</i>   |
|                                  | <i>internal_user</i>  | <i>create_internal_use</i>   |
|                                  | <i>ip_to_sgt_mapping</i>  | <i>bulk_request_for_ip</i>   |
|                                  | <i>ip_to_sgt_mapping_group</i>                                    | <i>bulk_request_for_ip</i>   |

|  |  |                             |
|--|--|-----------------------------|
|  | <i>licensing</i>   | <i>configure_smart_sta</i>  |
|  | <i>mdm</i>   | <i>get_endpoint_by_mac</i>  |
|  | <i>misc</i>  | <i>delete_all_sessions</i>  |
|  | <i>my_device_portal</i>                                    | <i>create_my_device_po</i>  |
|  | <i>native_suppllicant_profile</i>                          | <i>delete_native_suppl</i>  |
|  | <i>nbar_app</i>  | <i>create_nbar_app() de</i> |
|  | <i>network_access_authentication_rules</i>                 | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_exception_rules</i>        | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_global_exception_rules</i> | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_rules</i>                  | <i>create_network_acce</i>  |
|  | <i>network_access_conditions</i>                           | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary</i>                           | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary_attribute</i>                 | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary_attributes_list</i>           | <i>get_network_access_</i>  |
|  | <i>network_access_identity_stores</i>                      | <i>get_network_access_</i>  |
|  | <i>network_access_network_conditions</i>                   | <i>create_network_acce</i>  |
|  | <i>network_access_policy_set</i>                           | <i>create_network_acce</i>  |
|  | <i>network_access_profiles</i>                             | <i>get_network_access_</i>  |
|  | <i>network_access_security_groups</i>                      | <i>get_network_access_</i>  |
|  | <i>network_access_service_names</i>                        | <i>get_network_access_</i>  |
|  | <i>network_access_time_date_conditions</i>                 | <i>create_network_acce</i>  |
|  | <i>network_device</i>                                      | <i>bulk_request_for_ne</i>  |
|  | <i>network_device_group</i>                                | <i>create_network devi</i>  |
|  | <i>node_deployment</i>                                     | <i>delete_node() get_no</i> |
|  | <i>node_details</i>  | <i>get_node_detail_by_</i>  |
|  | <i>node_group</i>  | <i>add_node() create_no</i> |
|  | <i>node_services</i>                                       | <i>get_interfaces() get</i> |
|  | <i>pan_ha</i>  | <i>get_pan_ha_status()</i>  |
|  | <i>patching</i>  | <i>install_hotpatch() i</i> |
|  | <i>portal</i>  | <i>get_portal_by_id() g</i> |
|  | <i>portal_global_setting</i>                               | <i>get_portal_global_s</i>  |
|  | <i>portal_theme</i>  | <i>create_portal_theme</i>  |
|  | <i>profiler</i>  | <i>get_profiles()</i>       |
|  | <i>profiler_profile</i>                                    | <i>get_profiler_profil</i>  |
|  | <i>provider</i>  | <i>authorization() reg</i>  |
|  | <i>proxy</i>   | <i>get_proxy_connectio</i>  |
|  | <i>psn_node_details_with_radius_service</i>                | <i>get_session_service</i>  |
|  | <i>pull_deployment_info</i>                                | <i>get_deployment_info</i>  |
|  | <i>px_grid_node</i>  | <i>approve_px_grid_nod</i>  |
|  | <i>px_grid_settings</i>                                    | <i>autoapprove_px_grid</i>  |
|  | <i>radius_failure</i>                                      | <i>get_failures()</i>       |
|  | <i>radius_server_sequence</i>                              | <i>create_radius_serve</i>  |
|  | <i>repository</i>  | <i>create_repository()</i>  |
|  | <i>restid_store</i>  | <i>create_rest_id_stor</i>  |
|  | <i>security_group_to_virtual_network</i>                   | <i>bulk_request_for_se</i>  |
|  | <i>security_groups</i>                                     | <i>bulk_request_for_se</i>  |
|  | <i>security_groups_acls</i>                                | <i>bulk_request_for_se</i>  |
|  | <i>self_registered_portal</i>                              | <i>create_self_registe</i>  |
|  | <i>session_directory</i>                                   | <i>get_session_by_ip_a</i>  |
|  | <i>sg_vn_mapping</i>                                       | <i>bulk_create_sg_vn_m</i>  |

|  |   |  |
|--|---|--|
|  | <i>sms_provider</i>                         | <i>get_sms_provider()</i>                            |
|  | <i>sponsor_group</i>                        | <i>create_sponsor_group()</i>                        |
|  | <i>sponsor_group_member</i>                 | <i>get_sponsor_group_member()</i>                    |
|  | <i>sponsor_portal</i>                       | <i>create_sponsor_portal()</i>                       |
|  | <i>sponsored_guest_portal</i>               | <i>create_sponsored_guest_portal()</i>               |
|  | <i>support_bundle_download</i>              | <i>download_support_bundle()</i>                     |
|  | <i>support_bundle_status</i>                | <i>get_support_bundle_status()</i>                   |
|  | <i>support_bundle_trigger_configuration</i> | <i>create_support_bundle_trigger_configuration()</i> |
|  | <i>sxp_connections</i>                      | <i>bulk_request_for_sxp_connections()</i>            |
|  | <i>sxp_local_bindings</i>                   | <i>bulk_request_for_sxp_local_bindings()</i>         |
|  | <i>sxp_vpns</i>                             | <i>bulk_request_for_sxp_vpns()</i>                   |
|  | <i>system_certificate</i>                   | <i>create_system_certificate()</i>                   |
|  | <i>system_health</i>                        | <i>get_healths()</i>                                 |
|  | <i>tacacs_command_sets</i>                  | <i>create_tacacs_command_sets()</i>                  |
|  | <i>tacacs_external_servers</i>              | <i>create_tacacs_external_servers()</i>              |
|  | <i>tacacs_profile</i>                       | <i>create_tacacs_profile()</i>                       |
|  | <i>tacacs_server_sequence</i>               | <i>create_tacacs_server_sequence()</i>               |
|  | <i>tasks</i>                                | <i>get_task_status()</i>                             |
|  | <i>telemetry</i>                            | <i>get_transport_gateway_telemetry()</i>             |
|  | <i>telemetry_information</i>                | <i>get_telemetry_information()</i>                   |
|  | <i>trust_sec_configuration</i>              | <i>get_egress_matrices()</i>                         |
|  | <i>trust_sec_sxp</i>                        | <i>get_bindings()</i>                                |
|  | <i>version_and_patch</i>                    | <i>get_ise_version_and_patch()</i>                   |
|  | <i>version_info</i>                         | <i>get_version_info()</i>                            |
|  | <i>virtual_network</i>                      | <i>bulk_create_virtual_networks()</i>                |
|  | <i>vn_vlan_mapping</i>                      | <i>bulk_create_vn_vlan_mappings()</i>                |

### v3.1\_Patch\_1 summary

|                                  |  |   |
|----------------------------------|--|---|
| <i>IdentityServicesEngineAPI</i> | <i>aci_bindings</i>  | <i>get_aci_bindings()</i>   |
|                                  | <i>aci_settings</i>  | <i>get_aci_settings()</i>   |
|                                  | <i>active_directory</i>                                    | <i>create_active_directory()</i>                                    |
|                                  | <i>admin_user</i>  | <i>get_admin_user_by_id()</i>                                       |
|                                  | <i>allowed_protocols</i>                                   | <i>create_allowed_protocols()</i>                                   |
|                                  | <i>anc_endpoint</i>  | <i>apply_anc_endpoint()</i>   |
|                                  | <i>anc_policy</i>  | <i>bulk_request_for_anc_policies()</i>                              |
|                                  | <i>authentication</i>                                      | <i>authentication_api()</i>   |
|                                  | <i>authorization_profile</i>                               | <i>create_authorization_profile()</i>                               |
|                                  | <i>backup_and_restore</i>                                  | <i>cancel_backup()</i>  |
|                                  | <i>byod_portal</i>   | <i>create_byod_portal()</i>   |
|                                  | <i>certificate_profile</i>                                 | <i>create_certificate_profile()</i>                                 |
|                                  | <i>certificate_template</i>                                | <i>get_certificate_templates()</i>                                  |
|                                  | <i>certificates</i>  | <i>bind_csr() delete_csr()</i>                                      |
|                                  | <i>clear_threats_and_vulnerabilities</i>                   | <i>clear_threats_and_vulnerabilities()</i>                          |
|                                  | <i>consumer</i>  | <i>access_secret() activate()</i>                                   |
|                                  | <i>custom_caller</i>                                       | <i>add_api() call_api()</i>   |
|                                  | <i>device_administration_authentication_rules</i>          | <i>create_device_administration_authentication_rules()</i>          |
|                                  | <i>device_administration_authorization_exception_rules</i> | <i>create_device_administration_authorization_exception_rules()</i> |

|  |   |                             |
|--|---|-----------------------------|
|  | <i>device_administration_authorization_global_exception_rules</i> | <i>create_device_admin</i>  |
|  | <i>device_administration_authorization_rules</i>                  | <i>create_device_admin</i>  |
|  | <i>device_administration_command_set</i>                          | <i>get_device_admin_co</i>  |
|  | <i>device_administration_conditions</i>                           | <i>create_device_admin</i>  |
|  | <i>device_administration_dictionary_attributes_list</i>           | <i>get_device_admin_di</i>  |
|  | <i>device_administration_identity_stores</i>                      | <i>get_device_admin_id</i>  |
|  | <i>device_administration_network_conditions</i>                   | <i>create_device_admin</i>  |
|  | <i>device_administration_policy_set</i>                           | <i>create_device_admin</i>  |
|  | <i>device_administration_profiles</i>                             | <i>get_device_admin_pr</i>  |
|  | <i>device_administration_service_names</i>                        | <i>get_device_admin_se</i>  |
|  | <i>device_administration_time_date_conditions</i>                 | <i>create_device_admin</i>  |
|  | <i>downloadable_acl</i>   | <i>create_downloadable</i>  |
|  | <i>egress_matrix_cell</i>   | <i>bulk_request_for_eg</i>  |
|  | <i>endpoint</i>   | <i>bulk_request_for_en</i>  |
|  | <i>endpoint_certificate</i>                                       | <i>create_endpoint_cer</i>  |
|  | <i>endpoint_identity_group</i>                                    | <i>create_endpoint_gro</i>  |
|  | <i>external_radius_server</i>                                     | <i>create_external_rad</i>  |
|  | <i>filter_policy</i>  | <i>create_filter_polic</i>  |
|  | <i>guest_location</i>   | <i>get_guest_location()</i> |
|  | <i>guest_smtp_notification_configuration</i>                      | <i>create_guest_smtp_n</i>  |
|  | <i>guest_ssid</i>   | <i>create_guest_ssid()</i>  |
|  | <i>guest_type</i>   | <i>create_guest_type()</i>  |
|  | <i>guest_user</i>   | <i>approve_guest_user_</i>  |
|  | <i>hotspot_portal</i>   | <i>create_hotspot_port</i>  |
|  | <i>identity_groups</i>  | <i>create_identity_gro</i>  |
|  | <i>identity_sequence</i>  | <i>create_identity_seq</i>  |
|  | <i>internal_user</i>  | <i>create_internal_use</i>  |
|  | <i>ip_to_sgt_mapping</i>  | <i>bulk_request_for_ip</i>  |
|  | <i>ip_to_sgt_mapping_group</i>                                    | <i>bulk_request_for_ip</i>  |
|  | <i>licensing</i>  | <i>configure_smart_sta</i>  |
|  | <i>mdm</i>  | <i>get_endpoint_by_mac</i>  |
|  | <i>misc</i>   | <i>delete_all_sessions</i>  |
|  | <i>my_device_portal</i>   | <i>create_my_device_po</i>  |
|  | <i>native_suppliant_profile</i>                                   | <i>delete_native_suppl</i>  |
|  | <i>nbar_app</i>   | <i>create_nbar_app() de</i> |
|  | <i>network_access_authentication_rules</i>                        | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_exception_rules</i>               | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_global_exception_rules</i>        | <i>create_network_acce</i>  |
|  | <i>network_access_authorization_rules</i>                         | <i>create_network_acce</i>  |
|  | <i>network_access_conditions</i>                                  | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary</i>                                  | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary_attribute</i>                        | <i>create_network_acce</i>  |
|  | <i>network_access_dictionary_attributes_list</i>                  | <i>get_network_access_</i>  |
|  | <i>network_access_identity_stores</i>                             | <i>get_network_access_</i>  |
|  | <i>network_access_network_conditions</i>                          | <i>create_network_acce</i>  |
|  | <i>network_access_policy_set</i>                                  | <i>create_network_acce</i>  |
|  | <i>network_access_profiles</i>                                    | <i>get_network_access_</i>  |
|  | <i>network_access_security_groups</i>                             | <i>get_network_access_</i>  |
|  | <i>network_access_service_names</i>                               | <i>get_network_access_</i>  |
|  | <i>network_access_time_date_conditions</i>                        | <i>create_network_acce</i>  |

|  |   |                             |
|--|---|-----------------------------|
|  | <i>network_device</i>                       | <i>bulk_request_for_ne</i>  |
|  | <i>network_device_group</i>                 | <i>create_network_devi</i>  |
|  | <i>node_deployment</i>                      | <i>delete_node() get_no</i> |
|  | <i>node_details</i>                         | <i>get_node_detail_by</i>   |
|  | <i>node_group</i>                           | <i>add_node() create_no</i> |
|  | <i>node_services</i>                        | <i>get_interfaces() get</i> |
|  | <i>pan_ha</i>                               | <i>get_pan_ha_status()</i>  |
|  | <i>patching</i>                             | <i>install_hotpatch() i</i> |
|  | <i>portal</i>                               | <i>get_portal_by_id() g</i> |
|  | <i>portal_global_setting</i>                | <i>get_portal_global_s</i>  |
|  | <i>portal_theme</i>                         | <i>create_portal_theme</i>  |
|  | <i>profiler</i>                             | <i>get_profiles()</i>       |
|  | <i>profiler_profile</i>                     | <i>get_profiler_profil</i>  |
|  | <i>provider</i>                             | <i>authorization() reg</i>  |
|  | <i>proxy</i>                                | <i>get_proxy_connectio</i>  |
|  | <i>psn_node_details_with_radius_service</i> | <i>get_session_service</i>  |
|  | <i>pull_deployment_info</i>                 | <i>get_deployment_info</i>  |
|  | <i>px_grid_node</i>                         | <i>approve_px_grid_nod</i>  |
|  | <i>px_grid_settings</i>                     | <i>autoapprove_px_grid</i>  |
|  | <i>radius_failure</i>                       | <i>get_failures()</i>       |
|  | <i>radius_server_sequence</i>               | <i>create_radius_serve</i>  |
|  | <i>repository</i>                           | <i>create_repository()</i>  |
|  | <i>restid_store</i>                         | <i>create_rest_id stor</i>  |
|  | <i>security_group_to_virtual_network</i>    | <i>bulk_request_for_se</i>  |
|  | <i>security_groups</i>                      | <i>bulk_request_for_se</i>  |
|  | <i>security_groups_acls</i>                 | <i>bulk_request_for_se</i>  |
|  | <i>self_registered_portal</i>               | <i>create_self_registe</i>  |
|  | <i>session_directory</i>                    | <i>get_session_by_ip_a</i>  |
|  | <i>sg_vn_mapping</i>                        | <i>bulk_create_sg_vn_m</i>  |
|  | <i>sms_provider</i>                         | <i>get_sms_provider() g</i> |
|  | <i>sponsor_group</i>                        | <i>create_sponsor_grou</i>  |
|  | <i>sponsor_group_member</i>                 | <i>get_sponsor_group_m</i>  |
|  | <i>sponsor_portal</i>                       | <i>create_sponsor_port</i>  |
|  | <i>sponsored_guest_portal</i>               | <i>create_sponsored_gu</i>  |
|  | <i>support_bundle_download</i>              | <i>download_support_bu</i>  |
|  | <i>support_bundle_status</i>                | <i>get_support_bundle_</i>  |
|  | <i>support_bundle_trigger_configuration</i> | <i>create_support_bund</i>  |
|  | <i>sxp_connections</i>                      | <i>bulk_request_for_sx</i>  |
|  | <i>sxp_local_bindings</i>                   | <i>bulk_request_for_sx</i>  |
|  | <i>sxp_vpns</i>                             | <i>bulk_request_for_sx</i>  |
|  | <i>system_certificate</i>                   | <i>create_system_certi</i>  |
|  | <i>system_health</i>                        | <i>get_healths() get_pe</i> |
|  | <i>tacacs_command_sets</i>                  | <i>create_tacacs_comma</i>  |
|  | <i>tacacs_external_servers</i>              | <i>create_tacacs_exter</i>  |
|  | <i>tacacs_profile</i>                       | <i>create_tacacs_profi</i>  |
|  | <i>tacacs_server_sequence</i>               | <i>create_tacacs_serve</i>  |
|  | <i>tasks</i>                                | <i>get_task_status() ge</i> |
|  | <i>telemetry</i>                            | <i>get_transport_gatew</i>  |
|  | <i>telemetry_information</i>                | <i>get_telemetry_info_</i>  |
|  | <i>trust_sec_configuration</i>              | <i>get_egress_matrices</i>  |



|  |                                |   |
|--|--------------------------------|---|
|  | <code>trust_sec_sxp</code>     | <code>get_bindings()</code>                 |
|  | <code>version_and_patch</code> | <code>get_ise_version_and_patch()</code>    |
|  | <code>version_info</code>      | <code>get_version_info()</code>             |
|  | <code>virtual_network</code>   | <code>bulk_create_virtual_networks()</code> |
|  | <code>vn_vlan_mapping</code>   | <code>bulk_create_vn_vlan_mappings()</code> |

## IdentityServicesEngineAPI Class

### **class IdentityServicesEngineAPI**

Identity Services Engine API wrapper.

Creates a 'session' for all API calls through a created IdentityServicesEngineAPI object. The 'session' handles authentication, provides the needed headers, and checks all responses for error conditions.

IdentityServicesEngineAPI wraps all of the individual Identity Services Engine APIs and represents them in a simple hierarchical structure.

```
__init__(username=None, password=None, encoded_auth=None, uses_api_gateway=None,
          base_url=None, ui_base_url=None, ers_base_url=None, mnt_base_url=None,
          px_grid_base_url=None, single_request_timeout=None, wait_on_rate_limit=None,
          verify=None, version=None, debug=None, uses_csrf_token=None, ob-
          ject_factory=<function mydict_data_factory>, validator=<class 'ciscois-
          esdk.models.schema_validator.SchemaValidator'>, perform_initialize=True)
```

Create a new IdentityServicesEngineAPI object. An access token is required to interact with the Identity Services Engine APIs. This package supports two methods for you to pass the authorization token:

1. Provide a `encoded_auth` value (username:password encoded in base 64). *This has priority over the following method*
2. Provide username and password values.

This package supports two methods for you to set those values:

1. Provide the parameter. That is the `encoded_auth` or username and password parameters.
2. If an argument is not supplied, the package checks for its environment variable counterpart. That is the `IDENTITY_SERVICES_ENGINE_ENCODED_AUTH`, `IDENTITY_SERVICES_ENGINE_USERNAME`, `IDENTITY_SERVICES_ENGINE_PASSWORD`.

When not given enough parameters an `AccessTokenError` is raised.

#### **Parameters**

- **uses\_api\_gateway** (*bool, basestring*) – Controls whether we use the ISE's API Gateway to make the request. Defaults to the `IDENTITY_SERVICES_ENGINE_USES_API_GATEWAY` (or `IDENTITY_SERVICES_ENGINE_USES_API_GATEWAY_STRING`) environment variable or `ciscoisesdk.config.DEFAULT_USES_API_GATEWAY` if the environment variables are not set.
- **base\_url** (*basestring*) – The base URL to be prefixed to the individual API endpoint suffixes, used when `uses_api_gateway` is `True`. Defaults to the `IDENTITY_SERVICES_ENGINE_BASE_URL` environment variable or `ciscoisesdk.config.DEFAULT_BASE_URL` if the environment variable is not set.
- **ui\_base\_url** (*basestring*) – The UI base URL to be prefixed to the individual ISE UI API endpoint suffixes, used when `uses_api_gateway` is `False`. Defaults to the `IDENTITY_SERVICES_ENGINE_BASE_URL` environment variable if set.



- **ers\_base\_url** (*basestring*) – The ERS base URL to be prefixed to the individual ISE ERS API endpoint suffixes, used when `uses_api_gateway` is False. Defaults to the `IDENTITY_SERVICES_ENGINE_BASE_URL` environment variable if set.
- **mnt\_base\_url** (*basestring*) – The MNT base URL to be prefixed to the individual ISE MNT API endpoint suffixes, used when `uses_api_gateway` is False. Defaults to the `IDENTITY_SERVICES_ENGINE_BASE_URL` environment variable if set.
- **px\_grid\_base\_url** (*basestring*) – The PxGrid base URL to be prefixed to the individual ISE PxGrid API endpoint suffixes, used when `uses_api_gateway` is False. Defaults to the `IDENTITY_SERVICES_ENGINE_BASE_URL` environment variable if set.
- **username** (*basestring*) – HTTP Basic Auth username.
- **password** (*basestring*) – HTTP Basic Auth password.
- **encoded\_auth** (*basestring*) – HTTP Basic Auth base64 encoded string.
- **single\_request\_timeout** (*int*) – Timeout (in seconds) for RESTful HTTP requests. Defaults to the `IDENTITY_SERVICES_ENGINE_SINGLE_REQUEST_TIMEOUT` environment variable or `ciscoisesdk.config.DEFAULT_SINGLE_REQUEST_TIMEOUT` if the environment variable is not set.
- **wait\_on\_rate\_limit** (*bool*) – Enables or disables automatic rate-limit handling. Defaults to the `IDENTITY_SERVICES_ENGINE_WAIT_ON_RATE_LIMIT` environment variable or `ciscoisesdk.config.DEFAULT_WAIT_ON_RATE_LIMIT` if the environment variable is not set.
- **verify** (*bool, basestring*) – Controls whether we verify the server's TLS certificate, or a string, in which case it must be a path to a CA bundle to use. Defaults to the `IDENTITY_SERVICES_ENGINE_VERIFY` (or `IDENTITY_SERVICES_ENGINE_VERIFY_STRING`) environment variable or `ciscoisesdk.config.DEFAULT_VERIFY` if the environment variables are not set.
- **version** (*basestring*) – Controls which version of `IDENTITY_SERVICES_ENGINE` to use. Defaults to the `IDENTITY_SERVICES_ENGINE_VERSION` environment variable or `ciscoisesdk.config.DEFAULT_VERSION` if the environment variable is not set.
- **debug** (*bool, basestring*) – Controls whether to log information about Identity Services Engine APIs' request and response process. Defaults to the `IDENTITY_SERVICES_ENGINE_DEBUG` environment variable or False if the environment variable is not set.
- **uses\_csrf\_token** (*bool, basestring*) – Controls whether we send the CSRF token to ISE's ERS APIs. Defaults to the `IDENTITY_SERVICES_ENGINE_USES_CSRF_TOKEN` environment variable or `ciscoisesdk.config.DEFAULT_USES_CSRF_TOKEN` if the environment variables are not set.
- **object\_factory** (*callable*) – The factory function to use to create Python objects from the returned Identity Services Engine JSON data objects.
- **validator** (*callable*) – The factory class with function `json_schema_validate(model:string)` that returns an object with function `validate(obj:dict)` is used to validate Python objects sent in the request body.
- **perform\_initialize** (*bool*) – The flag that, if enabled, initializes now all the related objects to manage information from Identity Services Engine, like the authentication, the sessions (requests library), and the API wrappers (for each ISE API family). Defaults

to True. You can initialize/reinitialize later with *reinitialize*. The original value will not change.

**Returns** A new IdentityServicesEngineAPI object.

**Return type** *IdentityServicesEngineAPI*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **AccessTokenError** – If an access token is not provided via the access\_token argument or an environment variable.
- **VersionError** – If the version is not provided via the version argument or an environment variable, or it is not a Identity Services Engine API supported version ['3.1.0', '3.1.1', '3.1\_Patch\_1'].

**initialize\_authentication()**

Function used when perform\_initialize is True in class init. Init Authentication wrapper early to use for basicAuth requests.

**initialize\_sessions()**

Performs initialization of “session\_ui”, “session\_ers”, “session”, “session\_mnt”, “session\_px\_grid” properties. Creating for each one a RestSession object that handles the requests.

**initialize\_api\_wrappers()**

Initializes the API wrappers according to the defined version.

**reinitialize()**

Calls all the methods necessary to initialize/reinitialize the IdentityServicesEngineAPI.

**property authentication**

Utility object that provides authentication method.

**property perform\_initialize**

The flag that, if enabled, initialized in the constructor all the related objects to manage information from Identity Services Engine.

**is\_password(password)**

Check if the value of the current password match

**is\_encoded\_auth(encoded\_auth)**

Check if the value of the current encoded\_auth match

**property session**

The Identity Services Engine API session.

**property session\_ui**

The Identity Services Engine UI API session.

**property session\_ers**

The Identity Services Engine ERS API session.

**property session\_mnt**

The Identity Services Engine MNT API session.

**property session\_px\_grid**

The Identity Services Engine PxGrid API session.

**property username**

HTTP Basic Auth username

**change\_password** (*password*)

HTTP Basic Auth password.

It may require to call reinitialize to distribute the changes accross the SDK objects.

**change\_encoded\_auth** (*encoded\_auth*)

HTTP Basic Auth base64 encoded string.

It may require to call reinitialize to distribute the changes accross the SDK objects.

**property uses\_api\_gateway**

If the Identity Services Engine API uses an API Gateway.

**property base\_url**

The base URL prefixed to the individual API endpoint suffixes for ERS and Custom Caller operations.

**property ui\_base\_url**

The ui base URL prefixed to the individual API endpoint suffixes for UI operations.

**property ers\_base\_url**

The ers base URL prefixed to the individual API endpoint suffixes for ERS operations.

**property mnt\_base\_url**

The mnt base URL prefixed to the individual API endpoint suffixes for MNT operations.

**property px\_grid\_base\_url**

The px\_grid base URL prefixed to the individual API endpoint suffixes for PxGrid operations

**property single\_request\_timeout**

Timeout (in seconds) for an single HTTP request.

**property wait\_on\_rate\_limit**

Automatic rate-limit handling enabled / disabled.

**property verify**

The verify (TLS Certificate) for the API endpoints.

**property version**

The API version of Identity Services Engine.

**property debug**

If log information about Identity Services Engine APIs' request and response process is shown.

**property uses\_csrf\_token**

If the Identity Services Engine ERS API requires the X-CSRF-Token to be sent.

**property object\_factory**

The factory function to use to create Python objects from the returned Identity Services Engine JSON data objects.

**property validator**

The function used to validate Python objects sent in the request body.

## authentication

### class Authentication

Identity Services Engine Authentication API.

Wraps the Identity Services Engine Authentication API and exposes the API as native Python methods that return native Python objects.

#### property verify

The verify (TLS Certificate) for the API endpoints.

#### property base\_url

The base URL for the API endpoints.

#### property single\_request\_timeout

Timeout in seconds for the API requests.

#### authentication\_api (username, password, encoded\_auth=None)

Exchange basic auth data for a Authorization Basic encoded value that can be used to invoke the APIs.

##### Parameters

- **username** (*basestring*) – HTTP Basic Auth username.
- **password** (*basestring*) – HTTP Basic Auth password.
- **encoded\_auth** (*basestring*) – HTTP Basic Auth base64 encoded string.

**Returns** An AccessToken object with the access token provided by the Identity Services Engine cloud.

**Return type** AccessToken

**Raises** **TypeError** – If the parameter types are incorrect.

## custom\_caller

### class CustomCaller

Identity Services Engine CustomCaller.

Identity Services Engine CustomCaller allows API creation.

#### add\_api (name, obj)

Adds an api call to the CustomCaller.

##### Parameters

- **name** (*str*) – name you want to set to the api client, has to follow python variable naming rule.
- **obj** (*object*) – api call which is actually a calling call\_api method.

#### call\_api (method, resource\_path, raise\_exception=True, original\_response=False, \*\*kwargs)

Handles the requests and response.

##### Parameters

- **method** (*basestring*) – type of request.
- **resource\_path** (*basestring*) – URL in the request object.
- **raise\_exception** (*bool*) – If True, http exceptions will be raised.

- **original\_response** (*bool*) – If True, MyDict (JSON response) is returned, else response object.
- **path\_params** (*dict*) (*optional*) – Find each path\_params' key in the resource\_path and replace it with path\_params' value.
- **params** (*optional*) – Dictionary or bytes to be sent in the query string for the Request.
- **data** (*optional*) – Dictionary, bytes, or file-like object to send in the body of the Request.
- **json** (*optional*) – json data to send in the body of the Request.
- **headers** (*optional*) – Dictionary of HTTP Headers to send with the Request.
- **cookies** (*optional*) – Dict or CookieJar object to send with the Request.
- **files** (*optional*) – Dictionary of 'name': file-like-objects (or {'name': ('filename', fileobj)}) for multipart encoding upload.
- **auth** (*optional*) – Auth tuple to enable Basic/Digest/Custom HTTP Auth.
- **timeout** (*float, tuple*) (*optional*) – How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) tuple.
- **allow\_redirects** (*bool*) (*optional*) – bool. Set to True if POST/PUT/DELETE redirect following is allowed.
- **proxies** (*optional*) – Dictionary mapping protocol to the URL of the proxy.
- **verify** (*bool, string*) (*optional*) – if True, the SSL cert will be verified. A CA\_BUNDLE path can also be provided as a string.
- **stream** (*optional*) – if False, the response content will be immediately downloaded.
- **cert** (*basestring, tuple*) (*optional*) – if String, path to ssl client cert file (.pem). If Tuple, ('cert', 'key') pair

**Returns** If original\_response is True returns the original object response, else returns a JSON response with access to the object's properties by using the dot notation or the bracket notation. Defaults to False.

**Return type** *RestResponse* or *object*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **HTTPError** – If the Identity Services Engine cloud returns an error.

## IdentityServicesEngineAPI v3.1.0

### aci\_bindings

#### class **AcIBindings**

Identity Services Engine ACIBindings API (version: 3.1.0).

Wraps the Identity Services Engine ACIBindings API and exposes the API as native Python methods that return native Python objects.

The ACI Bindings API allows clients to retrieve bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on the ACI bindings page in

the Cisco ISE UI. Filtering will be based on one attribute only, such as ip, sgt, vn, psn, learnedFrom, or learnedBy with CONTAINS mode of search.

## Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute   | Type   | Required | Description   | Example Values  |
|-------------|--------|----------|---|---|
| name        | String | Yes      | Resource Name   |   |
| id          | String | No       | Resource UUID value   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69                        |
| description | String | No       |   |   |
| ip          | String | Yes      | Binding IPv4 address. Each binding will be exclusively identified by its IP address and virtual network | 10.0.0.1  |
| sgt         | String | No       | Security Group Tag (SGT) value. The valid range for SGT values is 0-65534                               | 1234  |
| vn          | String | Yes      | Virtual network. Each binding will be exclusively identified by its IP address and virtual network      | vn1234  |
| psn         | String | No       | Cisco ISE Policy Service node (PSN) IP address  | 10.86.189.216   |
| learnedFrom | String | Yes      | Binding Source  | ISE by ACI ACI by ISE                                       |
| learnedBy   | String | Yes      | Binding Type  | SXP(SXP, 0) STATIC(Static, 1) RADIUS(RADIUS, 2) ACI(ACI, 3) |

**get\_aci\_bindings** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API allows clients to retrieve all the bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on ACI bindings page in the Cisco ISE UI. Filtering will be based on one attribute only, such as ip/sgt/vn/psn/learnedFrom/learnedBy with CONTAINS mode of search.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.

- **filter\_by** (*basestring*, *list*, *set*, *tuple*) – filterBy query parameter.
- **filter\_value** (*basestring*, *list*, *set*, *tuple*) – filterValue query parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter\_by=None*, *filter\_value=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_aci\_bindings*

**get\_aci\_bindings\_generator** (*filter\_by=None*, *filter\_value=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API allows clients to retrieve all the bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on ACI bindings page in the Cisco ISE UI. Filtering will be based on one attribute only, such as ip/sgt/vn/psn/learnedFrom/learnedBy with CONTAINS mode of search.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter\_by** (*basestring*, *list*, *set*, *tuple*) – filterBy query parameter.
- **filter\_value** (*basestring*, *list*, *set*, *tuple*) – filterValue query parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for `get_aci_bindings_generator`

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the Cisco ACI bindings.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** `RestResponse`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.



## aci\_settings

### **class** **AciSettings**

Identity Services Engine ACISettings API (version: 3.1.0).

Wraps the Identity Services Engine ACISettings API and exposes the API as native Python methods that return native Python objects.

ACI Settings API allows the client to get and update the ACI Settings. In addition, testing the ACI Domain Manager connection is also possible using the TestACIConnection.

### **Revision History**

| <b>Revision #</b> | <b>Resource Version</b> | <b>Cisco ISE Version</b> | <b>Description</b>        |
|-------------------|-------------------------|--------------------------|---------------------------|
| 0                 | 1.0                     | 3.0                      | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute              | Type    | Re-quired | Description                             | Default Values | Example Values                       |
|------------------------|---------|-----------|---|----------------|--------------------------------------|
| name                   | String  | Yes       | Resource Name                           |                | AciSettings                          |
| id                     | String  | No        | Resource UUID value                     |                | 29fb45ab-6a8e-4658-8a28-02521c258178 |
| description            | String  | No        |   |                | Aci Settings                         |
| enableAci              | Boolean | Yes       | Enable ACI Integration                  | false          |                                      |
| isAci50                | Boolean | Yes       | Enable 5.0 ACI Version                  | false          |                                      |
| ipAddressHost-Name     | String  | No        | ACI Cluster IP Address / Host name      |                |                                      |
| adminName              | String  | No        | ACI Cluster Admin name                  |                |                                      |
| adminPassword          | String  | No        | ACI Cluster Admin password              |                |                                      |
| tenantName             | String  | No        | ACI Cluster Tenant name                 | ISE            |                                      |
| l3RouteNetwork         | String  | No        | ACI Cluster L3 Route network name       | L3_ROUTE       |                                      |
| suffixToEpg            | String  | No        | Name Conversion - EPG suffix            | SGT            |                                      |
| suffixToSgt            | String  | No        | Name Conversion - SGT suffix            | EPG            |                                      |
| allSxpDomain           | Boolean | No        | SXP Propagation to all the SXP domains  | false          |                                      |
| specificSxpDomain      | Boolean | No        | SXP Propagation to specific SXP domains | true           |                                      |
| specifixSxpDomainList  | List    | No        | Specific SXP domains list               | [default]      |                                      |
| isAci51                | Boolean | Yes       | Enable 5.1 ACI Version                  | false          |                                      |
| aciipaddress           | String  | No        | ACI Domain manager Ip Address           |                |                                      |
| aciuserName            | String  | No        | ACI Domain manager Username             |                |                                      |
| acipassword            | String  | No        | ACI Domain manager Password             |                |                                      |
| enableData-Plane       | Boolean | No        | Enable data plane                       | false          |                                      |
| untaggedPacketIepgName | String  | No        | Untagged IEPG packets name              | untagged       |                                      |
| defaultSgtName         | String  | No        | Default SGT name                        | Unknown        |                                      |
| enableElementsLimit    | Boolean | No        | Enable Elements Limit                   | false          |                                      |
| maxNumIepgFromAci      | Integer | No        | Max number of IEPGs                     | 1000           |                                      |
| maxNumSgt-ToAci        | Integer | No        | Max number of SGTs                      | 500            |                                      |

**get\_aci\_settings** (*headers=None, \*\*query\_parameters*)

This API allows the client to get ACI Settings.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_aci\_settings*

**`test_aci_connectivity`** (*headers=None, \*\*query\_parameters*)

This API allows the client to test ACI Domain Manager connection.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

```
update_aci_settings_by_id(id, aci50=None, aci51=None, aciipaddress=None, aci-
                           password=None, aciuser_name=None, admin_name=None,
                           admin_password=None, all_sxp_domain=None,
                           default_sgt_name=None, enable_aci=None, enable_data_plane=None,
                           enable_elements_limit=None, ip_address_host_name=None,
                           l3_route_network=None, max_num_iepg_from_aci=None,
                           max_num_sgt_to_aci=None, specific_sxp_domain=None,
                           specifix_sxp_domain_list=None, suffix_to_epg=None,
                           suffix_to_sgt=None, tenant_name=None, untagged_packet_iepg_name=None,
                           headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update ACI settings.

#### Parameters

- **aci50** (*boolean*) – Enable 5.0 ACI Version, property of the request body.
- **aci51** (*boolean*) – Enable 5.1 ACI Version, property of the request body.
- **aciipaddress** (*string*) – ACI Domain manager Ip Address., property of the request body.
- **acipassword** (*string*) – ACI Domain manager Password., property of the request body.
- **aciuser\_name** (*string*) – ACI Domain manager Username., property of the request body.
- **admin\_name** (*string*) – ACI Cluster Admin name, property of the request body.
- **admin\_password** (*string*) – ACI Cluster Admin password, property of the request body.
- **all\_sxp\_domain** (*boolean*) – allSxpDomain, property of the request body.
- **default\_sgt\_name** (*string*) – defaultSgtName, property of the request body.
- **enable\_aci** (*boolean*) – Enable ACI Integration, property of the request body.
- **enable\_data\_plane** (*boolean*) – enableDataPlane, property of the request body.
- **enable\_elements\_limit** (*boolean*) – enableElementsLimit, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **ip\_address\_host\_name** (*string*) – ACI Cluster IP Address / Host name, property of the request body.
- **l3\_route\_network** (*string*) – l3RouteNetwork, property of the request body.
- **max\_num\_iepg\_from\_aci** (*integer*) – maxNumIepgFromAci, property of the request body.
- **max\_num\_sgt\_to\_aci** (*integer*) – maxNumSgtToAci, property of the request body.
- **specific\_sxp\_domain** (*boolean*) – specificSxpDomain, property of the request body.
- **specifix\_sxp\_domain\_list** (*list*) – specifixSxpDomainList, property of the request body (list of strings).
- **suffix\_to\_epg** (*string*) – suffixToEpg, property of the request body.

- **suffix\_to\_sgt** (*string*) – suffixToSgt, property of the request body.
- **tenant\_name** (*string*) – tenantName, property of the request body.
- **untagged\_packet\_iepg\_name** (*string*) – untaggedPacketIepgName, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, aci50=None, aci51=None, aciipaddress=None, acipassword=None,
             aciuser_name=None, admin_name=None, admin_password=None,
             all_sxp_domain=None, default_sgt_name=None, enable_aci=None, enable_data_plane=None,
             enable_elements_limit=None, ip_address_host_name=None, l3_route_network=None,
             max_num_iepg_from_aci=None, max_num_sgt_to_aci=None, specific_sxp_domain=None,
             specific_sxp_domain_list=None, suffix_to_epg=None, suffix_to_sgt=None, tenant_name=None,
             untagged_packet_iepg_name=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_aci\_settings\_by\_id*

```
get_version(headers=None, **query_parameters)
```

This API helps to retrieve the version information related to the Cisco ACI settings.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## anc\_endpoint

### **class AncEndpoint**

Identity Services Engine ANCEndpoint API (version: 3.1.0).

Wraps the Identity Services Engine ANCEndpoint API and exposes the API as native Python methods that return native Python objects.

Adaptive Network Control (ANC) provides the ability to create network endpoint authorization controls based on ANC policies.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |  |

### **Resource Definition**

| Attribute    | Type   | Re-quired | Description                               | Example Values                       |
|--------------|--------|-----------|---|--------------------------------------|
| name         | String | Yes       | Resource Name                             |                                      |
| id           | String | No        | Resource UUID                             | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| descrip-tion | String | No        |   |                                      |
| macAd-dress  | String | Yes       | MAC address of the endpoint               | 00:11:22:33:44:55                    |
| policy-Name  | String | Yes       | Policy name to be applied to the endpoint | policy1                              |

## Supported ANC API transactions per second

On a 5 node Cisco ISE deployment with 60k sessions or on a 9 node Cisco ISE deployment with 200k/500k sessions, 250 transactions per second (TPS) is supported for any ANC API.

### Supported ANC APIs

\* applyEndpointByMacAddress \* clearEndpointByMacaddress \* applyEndpointByIpAddress \*  
applyEndpointPolicy \* clearEndpointPolicy

| Deployment | Number of Sessions | Supported ANC APIs TPS |
|------------|--------------------|------------------------|
| 5 nodes    | 60k                | 250                    |
| 9 nodes    | 200k               | 250                    |
| 5 nodes    | 500k               | 250                    |

**get\_anc\_endpoint\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC endpoint by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_endpoint\_by\_id*

**clear\_anc\_endpoint** (*additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to clear the required configuration.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**clear** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *clear\_anc\_endpoint*

**get\_anc\_endpoint** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC endpoints. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_anc\_endpoint*

**get\_anc\_endpoint\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC endpoints. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_anc\_endpoint\_generator*

**apply\_anc\_endpoint** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to apply the required configuration.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**apply** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *apply\_anc\_endpoint*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the ANC Endpoint.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_anc\_endpoint** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request`** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *`bulk_request_for_anc_endpoint`*

**`monitor_bulk_status_anc_endpoint`** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**

- **`bulkid`** (*basestring*) – bulkid path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *`monitor_bulk_status_anc_endpoint`*

## active\_directory

### class ActiveDirectory

Identity Services Engine ActiveDirectory API (version: 3.1.0).

Wraps the Identity Services Engine ActiveDirectory API and exposes the API as native Python methods that return native Python objects.

The Active Directory API allows the user to carry out add, delete, and search operations on the active directory domains through Cisco ISE's join points. For example, if you want to connect to the domain cisco.com and retrieve the domain groups, you can carry out the following steps which are also available as APIs: Step 1 Create a domain join point in Cisco ISE. In the "domain" parameter use cisco.com.

Step 2 Get all defined join points and copy your join point's ID from the response.

Step 3 Join all Cisco ISE nodes to the domain. Use the ID received in the Step 2 in the URL. From this point onwards, you can perform several actions. In each action you should specify the joint point ID in the URL, as retrieved in step 2 in the previous configuration task. For example, you can:

- Retrieve the user groups using the join point ID.

- Retrieve the groups of a specific domain using the join point ID. The domain parameter can be cisco.com or any of its trusted domains. You can use the get all trusted domains operation to retrieve the list.

### Revision History

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Version | Description   | Revision<br>Modifica-<br>tion        | Revision Modification   |
|-------------------------|-------------------------------|-------------------------|---|--------------------------------------|---|
|                         |                               |                         |   | Attribute                            | Description   |
| 0                       | 1.0                           | 2.2                     | Initial Cisco ISE Version   |                                      |   |
| 1                       | 1.1                           | 2.4                     | Support new attributes  | advanced-<br>Settings                | Added ERSActiveDirectoryAd-<br>vancedSettings Attribute 'ad-<br>vancedSettings' |
|                         |                               |                         |   | adAt-<br>tributes                    | Added ERSActiveDirectoryAt-<br>tributes Attribute 'adAttributes'                |
|                         |                               |                         |   | enable-<br>Domain-<br>WhiteList      | Added Boolean Attribute 'en-<br>ableDomainWhiteList'                            |
| 2                       | 1.2                           | 3.1                     | Support new attributes<br>under ActiveDirectory<br>AdvancedSettings | enable-<br>FailedAuth-<br>Protection | Added Boolean Attribute 'en-<br>ableFailedAuthProtection'                       |
|                         |                               |                         |   | failedAu-<br>thThresh-<br>old        | Added Integer Attribute<br>'failedAuthThreshold'                                |
|                         |                               |                         |   | auth Protec-<br>tionType             | Added Enum Attribute 'authPro-<br>tectionType'                                  |

### Resource Definition

| Attribute             | Type    | Required | Description  | Default Values | Example Values                       |
|-----------------------|---------|----------|--|----------------|--------------------------------------|
| name                  | String  | Yes      | Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/_ characters  | ...            | Company_users                        |
| id                    | String  | No       | Resource UUID value  | ...            | af1cd190-7d71-11eb-b02e-ead13cf60dcb |
| description           | String  | No       | No character restriction   | ...            | Group of Active company users        |
| domain                | String  | Yes      | The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed   | ...            | cisco.com                            |
| adScopesNames         | String  | No       | String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (_) characters are allowed | Default_Scope  | ...                                  |
| enableDomainWhitelist | Boolean | No       | ...  | true           | ...                                  |
| adGroups              | List    | No       | Holds list of AD Groups  | ...            | ...                                  |
| • groups              | List    | No       | List of Groups   | ...            | ...                                  |

Continued on next page

Table 4 – continued from previous page

|              |        |     |   |        |                     |
|--------------|--------|-----|---|--------|---------------------|
| • name       | String | Yes | Required for each group in the group list with no duplication between groups. All characters are allowed except %   | ...    | cisco.com/operators |
| • sid        | String | Yes | Cisco ISE uses security identifiers (SIDs) for optimization of group membership evaluation. SIDs are useful for efficiency (speed) when the groups are evaluated. All characters are allowed except % | ...    | S-1-5-32-548        |
| • type       | String | No  | No character restriction  | ...    | GLOBAL              |
| adAttributes | List   | No  | Holds list of AD Attributes   | ...    | ...                 |
| • attributes | List   | No  | List of Attributes  | ...    | ...                 |
| • name       | String | Yes | Required for each attribute in the attribute list with no duplication between attributes. All characters are allowed except <%”   | ...    | name1               |
| • type       | Enum   | Yes | Required for each group in the group list. Allowed values:<br>- STRING,<br>- IP,<br>- BOOLEAN,<br>- INT,<br>- OCTET_STRING  | STRING | ...                 |

Continued on next page

Table 4 – continued from previous page

|                  |         |     |  |     |               |
|------------------|---------|-----|--|-----|---------------|
| • internalName   | String  | Yes | Required for each attribute in the attribute list. All characters are allowed except <%”   | ... | internalName1 |
| • defaultValue   | String  | Yes | Required for each attribute in the attribute list. Can contain an empty string. All characters are allowed except <%”  | ... | defaultString |
| advancedSettings | List    | No  | ...  | ... | ...           |
| • rewriteRules   | List    | No  | Identity rewrite is an advanced feature that directs Cisco ISE to manipulate the identity before it is passed to the external Active Directory system. You can create rules to change the identity to a desired format that includes or excludes a domain prefix and/or suffix or other additional markup of your choice | ... | ...           |
| • rowId          | Integer | Yes | Required for each rule in the list in serial order   | ... | 0             |
| • rewriteMatch   | String  | Yes | Required for each rule in the list with no duplication between rules. All characters are allowed except %”   | ... | exampleMatch0 |

Continued on next page



Table 4 – continued from previous page

|                                    |         |     |  |                      |                |
|------------------------------------|---------|-----|--|----------------------|----------------|
| •<br>rewriteResult                 | String  | Yes | Required for each rule in the list. All characters are allowed except %” | ...                  | exampleResult0 |
| •<br>enableRewrites                | Boolean | No  | ...  | false                | ...            |
| •<br>enablePassChange              | Boolean | No  | ...  | true                 | ...            |
| •<br>enableMachineAuth             | Boolean | No  | ...  | true                 | ...            |
| •<br>enableMachineAccess           | Boolean | No  | ...  | true                 | ...            |
| •<br>enableDialinPermissionCheck   | Boolean | No  | ...  | false                | ...            |
| •<br>plaintextAuth                 | Boolean | No  | ...  | false                | ...            |
| •<br>agingTime                     | Integer | No  | Range 1-8760 hours   | 5                    | ...            |
| •<br>enableCallbackForDialinClient | Boolean | No  | ...  | false                | ...            |
| •<br>identityNotInAdBehaviour      | Enum    | No  | Allowed values:<br>- REJECT,<br>- SEARCH_JOINED_FOREST,<br>- SEARCH_ALL  | SEARCH_JOINED_FOREST | ...            |
| •<br>unreachableDomainsBehaviour   | Enum    | No  | Allowed values:<br>- PROCEED,<br>- DROP                                  | PROCEED              | ...            |

Continued on next page

Table 4 – continued from previous page

|                      |        |    |  |                  |     |
|----------------------|--------|----|--|------------------|-----|
| • schema             | Enum   | No | Allowed values: - ACTIVE_DIRECTORY, - CUSTOM-Choose ACTIVE_DIRECTORY schema when the AD attributes defined in AD can be copied to relevant attributes in Cisco ISE. If customization is needed, choose CUSTOM schema. All User info attributes are always set to default value if schema is ACTIVE_DIRECTORY. Values can be changed only for CUSTOM schema | ACTIVE_DIRECTORY |     |
| • firstName          | String | No | User info attribute. All characters are allowed except %   | givenName        | ... |
| • department         | String | No | User info attribute. All characters are allowed except %   | department       | ... |
| • lastName           | String | No | User info attribute. All characters are allowed except %   | sn               | ... |
| • organizationalUnit | String | No | User info attribute. All characters are allowed except %   | company          | ... |
| • jobTitle           | String | No | User info attribute. All characters are allowed except %   | title            | ... |

Continued on next page

Table 4 – continued from previous page

|                              |         |    |   |                 |     |
|------------------------------|---------|----|---|-----------------|-----|
| • locality                   | String  | No | User info attribute. All characters are allowed except %                      | l               | ... |
| • email                      | String  | No | User info attribute. All characters are allowed except %                      | mail            | ... |
| • stateOrProvince            | String  | No | User info attribute. All characters are allowed except %                      | st              | ... |
| • telephone                  | String  | No | User info attribute. All characters are allowed except %                      | telephoneNumber | ... |
| • country                    | String  | No | User info attribute. All characters are allowed except %                      | co              | ... |
| • streetAddress              | String  | No | User info attribute. All characters are allowed except %                      | streetAddress   | ... |
| • enableFailedAuthProtection | Boolean | No | Enable prevent AD account lockout due to too many bad password attempts       | false           | ... |
| • failedAuthThreshold        | Integer | No | Number of bad password attempts   | 5               | ... |
| • authProtectionType         | Enum    | No | Enable prevent AD account lockout. Allowed values:- WIRELESS, - WIRED, - BOTH | WIRELESS        | ... |

**get\_active\_directory\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get Active Directory by name.

#### Parameters

- **name** (*basestring*) – name path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_active\_directory\_by\_name*

**get\_user\_groups** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to get groups of which a given user is a member.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**load\_groups\_from\_domain** (*id*, *ad\_attributes=None*, *ad\_scopes\_names=None*, *adgroups=None*, *advanced\_settings=None*, *description=None*, *domain=None*, *enable\_domain\_white\_list=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API loads domain groups configuration from Active Directory into Cisco ISE.

#### Parameters

- **ad\_attributes** (*object*) – Holds list of AD Attributes, property of the request body.
- **ad\_scopes\_names** (*string*) – String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (\_) characters are allowed, property of the request body.
- **adgroups** (*object*) – Holds list of AD Groups, property of the request body.
- **advanced\_settings** (*object*) – advancedSettings, property of the request body.
- **description** (*string*) – No character restriction, property of the request body.
- **domain** (*string*) – The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed, property of the request body.
- **enable\_domain\_white\_list** (*boolean*) – enableDomainWhiteList, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **name** (*string*) – Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/characters, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**leave\_domain** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API makes a Cisco ISE node to leave an Active Directory domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**is\_user\_member\_of\_groups** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API verifies if the user is a member of the given groups.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_trusted_domains`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API gets the list of domains that are accessible through the given join point via trust relationships.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`join_domain_with_all_nodes`** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins all Cisco ISE Nodes to an Active Directory domain.

**Parameters**

- **`additional_data`** (*list*) – additionalData, property of the request body (list of objects).
- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**leave\_domain\_with\_all\_nodes** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins makes all Cisco ISE nodes leave an Active Directory domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**get\_groups\_by\_domain** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API lists the groups of the given domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_active\_directory\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API fetches the join point details by ID. The ID can be retrieved with the Get All operation.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_active\_directory\_by\_id*

**delete\_active\_directory\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an AD join point from Cisco ISE.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_active\_directory\_by\_id*

**join\_domain** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins a Cisco ISE node to an Active Directory domain.

**Parameters**

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_active_directory`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API lists all the join points for Active Directory domains in Cisco ISE.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_active\_directory*

**`get_active_directory_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API lists all the join points for Active Directory domains in Cisco ISE.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.

- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_active\\_directory\\_generator\*](#)

**create\_active\_directory** (*ad\_attributes=None, ad\_scopes\_names=None, adgroups=None, advanced\_settings=None, description=None, domain=None, enable\_domain\_white\_list=None, id=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an AD join point in Cisco ISE.

### Parameters

- **ad\_attributes** (*object*) – Holds list of AD Attributes, property of the request body.
- **ad\_scopes\_names** (*string*) – String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (\_) characters are allowed, property of the request body.
- **adgroups** (*object*) – Holds list of AD Groups, property of the request body.
- **advanced\_settings** (*object*) – advancedSettings, property of the request body.
- **description** (*string*) – No character restriction, property of the request body.
- **domain** (*string*) – The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed, property of the request body.
- **enable\_domain\_white\_list** (*boolean*) – enableDomainWhiteList, property of the request body.
- **id** (*string*) – Resource UUID value, property of the request body.
- **name** (*string*) – Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/characters, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*ad\_attributes=None, ad\_scopes\_names=None, adgroups=None, advanced\_settings=None, description=None, domain=None, enable\_domain\_white\_list=None, id=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_active\_directory*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the active directory.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**admin\_user****class AdminUser**

Identity Services Engine AdminUser API (version: 3.1.0).

Wraps the Identity Services Engine AdminUser API and exposes the API as native Python methods that return native Python objects.

The Admin User API allows to retrieve information related to admin users configured on Cisco ISE.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description                      |
|------------|------------------|-------------------|----------------------------------|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version        |
| 1          | 1.1              | 2.0               | Cisco ISE Release 2.3 Admin User |

**Resource Definition**

| Attribute                              | Type    | Re-<br>quired | Description   | Example Values                             | De-<br>fault<br>Value |
|--|---------|---------------|---|--|-----------------------|
| name                                   | String  | Yes           | Resource Name   |  |                       |
| id                                     | String  | Yes           | Resource UUID   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69       |                       |
| description                            | String  | No            |   |  |                       |
| changePass-<br>word                    | Boolean | Yes           |   | true                                       | true                  |
| email                                  | String  | No            |   | <a href="#">email1@domain.com</a>          |                       |
| includeSys-<br>temAlarm-<br>sInEmail   | Boolean | No            |   | false                                      |                       |
| inactiveAc-<br>countN-<br>everDisabled | Boolean | No            |   | true                                       |                       |
| enabled                                | Boolean | Yes           |   | false                                      |                       |
| external                               | Boolean | No            |   | true                                       |                       |
| customAt-<br>tributes                  | String  | No            | Key Value Map   | { "MyCustom-<br>Attribute" :<br>"Value1" } |                       |
| firstName                              | String  | No            |   |  |                       |
| adminGroups                            | String  | No            | Admin Group Names   | Super Admin                                |                       |
| lastName                               | String  | No            |   |  |                       |
| password                               | String  | No            | The password field doesn't show the actual password configured. It is hidden with the asterisk (*) symbol |  |                       |

`get_admin_user_by_id(id, headers=None, **query_parameters)`

This API allows the client to get an admin user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_admin_user_by_id`

`get_admin_users(filter=None, filter_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, **query_parameters)`

This API allows the client to get all the admin users. Filter: [firstName, lastName, adminGroups, name, description, inactiveAccountNeverDisabled, includeSystemAlarmsInEmail, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_admin\_users*

**get\_admin\_users\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the admin users. Filter: [firstName, lastName, adminGroups, name, description, inactiveAccountNeverDisabled, includeSystemAlarmsInEmail, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .



- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_admin\_users\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the admin user.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

## allowed\_protocols

### class AllowedProtocols

Identity Services Engine AllowedProtocols API (version: 3.1.0).

Wraps the Identity Services Engine AllowedProtocols API and exposes the API as native Python methods that return native Python objects.

Allowed Protocols API allows the client to add, delete, update, search and perform actions on allowed protocols.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               | Revision Modification                | Revision Modification                                     |
|------------|------------------|-------------------|---------------------------|--------------------------------------|---|
|            |                  |                   |                           | Attribute                            | Description   |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |                                      |   |
| 1          | 1.1              | 2.7               | Added support for TEAP    | preferredEapProtocol                 | Added value 'TEAP' to enum attribute preferredEapProtocol |
|            |                  |                   |                           | allowTeap                            | Added boolean attribute allowTeap                         |
|            |                  |                   |                           | allowTeapEapMsChapV2                 | Added boolean attribute allowTeapEapMsChapV2              |
|            |                  |                   |                           | allowTeapEapMsChapV2PwdChange        | Added boolean attribute allowTeap                         |
|            |                  |                   |                           | allowTeapEapMsChapV2PwdChangeRetries | Added int attribute allowTeapEapMsChapV2PwdChangeRetries  |
|            |                  |                   |                           | allowTeapEapTls                      | Added boolean attribute allowTeapEapTls                   |

### Resource Definition

| Attribute | Type   | Required | Description                         | Example Values                       |
|-----------|--------|----------|-------------------------------------|--------------------------------------|
| name      | String | Yes      | Resource Name                       | Default Device Admin                 |
| id        | String | No       | Resource UUID, Mandatory for update | 926901b0-8c01-11e6-996c-525400b48521 |

Continued on next page

Table 5 – continued from previous page

| description                          | String  | No  |  | Default Protocol Device Admin | Allowed Service Admin |
|--------------------------------------|---------|-----|--|-------------------------------|-----------------------|
| processHostLookup                    | Boolean | Yes |  | true                          |                       |
| allowPapAscii                        | Boolean | No  |  | true                          |                       |
| allowChap                            | Boolean | Yes |  | false                         |                       |
| allowMsChapV1                        | Boolean | Yes |  | false                         |                       |
| allowMsChapV2                        | Boolean | Yes |  | false                         |                       |
| allowEapMd5                          | Boolean | Yes |  | true                          |                       |
| allowLeap                            | Boolean | Yes |  | false                         |                       |
| allowEapTls                          | Boolean | Yes |  | true                          |                       |
| allowEapTtls                         | Boolean | Yes |  | true                          |                       |
| allowEapFast                         | Boolean | Yes |  | true                          |                       |
| allowPeap                            | Boolean | Yes |  | true                          |                       |
| allowTeap                            | Boolean | Yes |  | true                          |                       |
| allowPreferredEapProtocol            | Boolean | Yes |  | true                          |                       |
| eapTlsLBit                           | Boolean | Yes |  | false                         |                       |
| allowWeakCiphersForEap               | Boolean | Yes |  | false                         |                       |
| requireMessageAuth                   | Boolean | Yes |  | false                         |                       |
| preferredEapProtocol                 | Enum    | No  | The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored.                                  | PEAP                          |                       |
| eapTls                               | List    | No  | The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol |                               |                       |
| • allowEapTlsAuthOfExpiredCerts      | Boolean | Yes |  | false                         |                       |
| • eapTlsEnableStatelessSessionResume | Boolean | Yes |  | false                         |                       |

Continued on next page

Table 5 – continued from previous page

|                                    |         |     |  |         |
|------------------------------------|---------|-----|--|---------|
| •<br>eapTlsSessionTicketTtl        | Integer | No  | Time to live. The eapTlsSessionTicketTtl is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored                  | 1       |
| •<br>eapTlsSessionTicketTtlUnits   | Enum    | No  | Time to live time units. The eapTlsSessionTicketTtlUnits is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored. | SECONDS |
| •<br>eapTlsSessionTicketPercentage | Integer | No  | The eapTlsSessionTicketPercentage is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored                         | 1       |
| peap                               | List    | No  | The peap is required only if allowPeap is true, otherwise it must be ignored. The object peap contains the settings for PEAP protocol                  |         |
| •<br>allowPeapEapMsChapV2          | Boolean | Yes |  | true    |
| •<br>allowPeapEapMsChapV2PwdChange | Boolean | No  | The allowPeapEapMsChapV2PwdChange is required only if allowPeapEapMsChapV2 is true, otherwise it must be ignored                                       | true    |

Continued on next page

Table 5 – continued from previous page

|  |         |     |  |       |
|--|---------|-----|--|-------|
| •<br>allowPeapEapMsChapV2PwChangeRetries | Integer | No  | The allowPeapEapMsChapV2PwChangeRetries is required only if allowPeapEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3 | 1     |
| •<br>allowPeapEapGtc                     | Boolean | Yes |  | false |
| •<br>allowPeapEapGtcPwChange             | Boolean | No  | The allowPeapEapGtcPwChange is required only if allowPeapEapGtc is true, otherwise it must be ignored                                      | false |
| •<br>allowPeapEapGtcPwChangeRetries      | Integer | No  | The allowPeapEapGtcPwChangeRetries is required only if allowPeapEapGtc is true, otherwise it must be ignored. Valid range is 0-3           | 1     |
| •<br>allowPeapEapTls                     | Boolean | Yes |  | true  |
| •<br>allowPeapEapTlsAuthOfExpiredCerts   | Boolean | No  | The allowPeapEapTlsAuthOfExpiredCerts is required only if allowPeapEapTls is true, otherwise it must be ignored                            | false |
| •<br>requireCryptobinding                | Boolean | Yes |  | false |
| •<br>allowPeapV0                         | Boolean | Yes |  | false |

Continued on next page

Table 5 – continued from previous page

|                                      |         |     |  |      |
|--------------------------------------|---------|-----|--|------|
| eapTtls                              | List    | No  | The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol |      |
| • eapTtlsPapAscii                    | Boolean | Yes |  | true |
| • eapTtlsChap                        | Boolean | Yes |  | true |
| • eapTtlsMsChapV1                    | Boolean | Yes |  | true |
| • eapTtlsMsChapV2                    | Boolean | Yes |  | true |
| • eapTtlsEapMd5                      | Boolean | Yes |  | true |
| • eapTtlsEapMsChapV2                 | Boolean | Yes |  | true |
| • eapTtlsEapMsChapV2PwdChange        | Boolean | No  | The eapTtlsEapMsChapV2PwdChange is required only if eapTtlsEapMsChapV2 is true, otherwise it must be ignored                                       | true |
| • eapTtlsEapMsChapV2PwdChangeRetries | Integer | No  | The eapTtlsEapMsChapV2PwdChangeRetries is required only if eapTtlsEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3            | 1    |

Continued on next page

Table 5 – continued from previous page

|  |         |     |   |      |
|--|---------|-----|---|------|
| eapFast                                  | List    | No  | The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eap-Fast contains the settings for EAP FAST protocol |      |
| • allowEapFastEapMsChapV2                | Boolean | Yes |   | true |
| • allowEapFastEapMsChapV2PwChange        | Boolean | No  | The allowEap-FastEapM-sChapV2PwChange is required only if allowEap-FastEapM-sChapV2 is true, otherwise it must be ignored                           | true |
| • allowEapFastEapMsChapV2PwChangeRetries | Integer | No  | The allowEap-FastEapM-sChapV2PwChangeRetries is required only if eapTlsEapM-sChapV2 is true, otherwise it must be ignored. Valid range is 0-3       | 1    |
| • allowEapFastEapGtc                     | Boolean | Yes |   | true |
| • allowEapFastEapGtcPwChange             | Boolean | No  | The allowEap-FastEapGtcPw-Change is required only if allowEap-FastEapGtc is true, otherwise it must be ignored                                      | true |
| • allowEapFastEapGtcPwChangeRetries      | Integer | No  | The allowEap-FastEapGtcPw-ChangeRetries is required only if allowEap-FastEapGtc is true, otherwise it must be ignored. Valid range is 0-3           | 1    |

Continued on next page

Table 5 – continued from previous page

|  |         |     |  |         |
|--|---------|-----|--|---------|
| •<br>allowEapFastEapTls                            | Boolean | Yes |  | true    |
| •<br>allowEapFastEapTlsAuthOfExpiredCerts          | Boolean | No  | The allowEapFastEapTlsAuthOfExpiredCerts is required only if allowEapFastEapTls is true, otherwise it must be ignored      | false   |
| •<br>eapFastEnableEAPChaining                      | Boolean | Yes |  | false   |
| •<br>eapFastUsePacs                                | Boolean | Yes |  | true    |
| •<br>eapFastUsePacsTunnelPacTtl                    | Integer | No  | The eapFastUsePacsTunnelPacTtl is required only if eapFastUsePacs is true, otherwise it must be ignored                    | 7776000 |
| •<br>eapFastUsePacsTunnelPacTtlUnits               | Enum    | No  | The eapFastUsePacsTunnelPacTtlUnits is required only if eapFastUsePacs is true, otherwise it must be ignored.              | SECONDS |
| •<br>eapFastUsePacsUseProactivePacUpdatePrecentage | Integer | No  | The eapFastUsePacsUseProactivePacUpdatePrecentage is required only if eapFastUsePacs is true, otherwise it must be ignored | 10      |
| •<br>eapFastUsePacsAllowAnonymProvisioning         | Boolean | No  | The eapFastUsePacsAllowAnonymProvisioning is required only if eapFastUsePacs is true, otherwise it must be ignored         | false   |

Continued on next page



Table 5 – continued from previous page

|   |         |    |  |         |
|---|---------|----|--|---------|
| •<br>eapFastUsePacsAllowAuthenProvisioning                          | Boolean | No | The eapFastUsePacsAllowAuthenProvisioning is required only if eapFastUsePacs is true, otherwise it must be ignored   | false   |
| •<br>eapFastUsePacsReturnAccessAcceptAfterAuthenticatedProvisioning | Boolean | No | The eapFastUsePacsReturnAccessAcceptAfterAuthenticatedProvisioning is required only if eapFastUsePacsAllowAuthenProvisioning is true, otherwise it must be ignored | false   |
| •<br>eapFastUsePacsAcceptClientCert                                 | Boolean | No | The eapFastUsePacsAcceptClientCert is required only if eapFastUsePacsAllowAuthenProvisioning is true, otherwise it must be ignored                                 | false   |
| •<br>eapFastUsePacsAllowMachineAuthentication                       | Boolean | No |  | false   |
| •<br>eapFastUsePacsMachinePacTtl                                    | Integer | No | The eapFastUsePacsMachinePacTtl is required only if eapFastUsePacsAllowMachineAuthentication is true, otherwise it must be ignored                                 | 1       |
| •<br>eapFastUsePacsMachinePacTtlUnits                               | Enum    | No | The eapFastUsePacsMachinePacTtlUnits is required only if eapFastUsePacsAllowMachineAuthentication is true, otherwise it must be ignored.                           | SECONDS |

Continued on next page

Table 5 – continued from previous page

|   |         |     |  |         |
|---|---------|-----|--|---------|
| •<br>eapFastUsePacsStatelessSessionResume         | Boolean | No  | The eapFastUsePacsStatelessSessionResume is required only if eapFastUsePacs is true, otherwise it must be ignored                          | false   |
| •<br>eapFastUsePacsAuthorizationPacTtl            | Integer | No  | The eapFastUsePacsAuthorizationPacTtl is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored       | 1       |
| •<br>eapFastUsePacsAuthorizationPacTtlUnits       | Enum    | No  | The eapFastUsePacsAuthorizationPacTtlUnits is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored. | SECONDS |
| •<br>eapFastDontUsePacsAcceptClientCert           | Boolean | No  | The eapFastDontUsePacsAcceptClientCert is required only if eapFastUsePacs is FALSE, otherwise it must be ignored                           | false   |
| •<br>eapFastDontUsePacsAllowMachineAuthentication | Boolean | No  | The eapFastDontUsePacsAllowMachineAuthentication is required only if eapFastUsePacs is FALSE, otherwise it must be ignored                 | false   |
| teap  | List    | No  | The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol      |         |
| •<br>allowTeapEapMsChapV2                         | Boolean | Yes |  | true    |

Continued on next page

Table 5 – continued from previous page

|   |         |     |   |       |
|---|---------|-----|---|-------|
| •<br>allowTeapEapMsChapV2PwdChange        | Boolean | No  | The allowTeapEapMsChapV2PwdChange is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored                            | true  |
| •<br>allowTeapEapMsChapV2PwdChangeRetries | Integer | No  | The allowTeapEapMsChapV2PwdChangeRetries is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3 | 3     |
| •<br>allowTeapEapTls                      | Boolean | Yes |   | true  |
| •<br>allowTeapEapTlsAuthOfExpiredCerts    | Boolean | No  | The allowTeapEapTlsAuthOfExpiredCerts is required only if allowTeapEapTls is true, otherwise it must be ignored                             | false |
| •<br>acceptClientCertDuringTunnelEst      | Boolean | Yes |   | true  |
| •<br>enableEapChaining                    | Boolean | Yes |   | false |
| •<br>allowDowngradeMsk                    | Boolean | Yes |   | false |

**get\_allowed\_protocol\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an allowed protocol by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_allowed_protocol_by_name`*

**`get_allowed_protocol_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an allowed protocol by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_allowed_protocol_by_id`*

```

update_allowed_protocol_by_id(id,    allow_chap=None,    allow_eap_fast=None,    al-
                               low_eap_md5=None,    allow_eap_tls=None,    al-
                               low_eap_ttls=None,    allow_leap=None,    al-
                               low_ms_chap_v1=None,    allow_ms_chap_v2=None,
                               allow_pap_ascii=None,    allow_peap=None,    al-
                               low_preferred_eap_protocol=None,    allow_teap=None,
                               allow_weak_ciphers_for_eap=None,    description=None,
                               eap_fast=None,    eap_tls=None,    eap_tls_l_bit=None,
                               eap_ttls=None,    name=None,    peap=None,    pre-
                               ferred_eap_protocol=None,    process_host_lookup=None,
                               require_message_auth=None,    teap=None,    head-
                               ers=None,    payload=None,    active_validation=True,
                               **query_parameters)

```

This API allows the client to update an allowed protocol.

#### Parameters

- **allow\_chap** (*boolean*) – allowChap, property of the request body.
- **allow\_eap\_fast** (*boolean*) – allowEapFast, property of the request body.
- **allow\_eap\_md5** (*boolean*) – allowEapMd5, property of the request body.
- **allow\_eap\_tls** (*boolean*) – allowEapTls, property of the request body.
- **allow\_eap\_ttls** (*boolean*) – allowEapTtls, property of the request body.
- **allow\_leap** (*boolean*) – allowLeap, property of the request body.
- **allow\_ms\_chap\_v1** (*boolean*) – allowMsChapV1, property of the request body.
- **allow\_ms\_chap\_v2** (*boolean*) – allowMsChapV2, property of the request body.
- **allow\_pap\_ascii** (*boolean*) – allowPapAscii, property of the request body.
- **allow\_peap** (*boolean*) – allowPeap, property of the request body.
- **allow\_preferred\_eap\_protocol** (*boolean*) – allowPreferredEapProtocol, property of the request body.
- **allow\_teap** (*boolean*) – allowTeap, property of the request body.
- **allow\_weak\_ciphers\_for\_eap** (*boolean*) – allowWeakCiphersForEap, property of the request body.
- **description** (*string*) – description, property of the request body.
- **eap\_fast** (*object*) – The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eapFast contains the settings for EAP FAST protocol, property of the request body.
- **eap\_tls** (*object*) – The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol, property of the request body.
- **eap\_tls\_l\_bit** (*boolean*) – eapTlsLBit, property of the request body.
- **eap\_ttls** (*object*) – The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol, property of the request body.
- **id** (*basestring*) – Resource UUID, Mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.

- **peap** (*object*) – peap, property of the request body.
- **preferred\_eap\_protocol** (*string*) – The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored. Allowed Values: EAP\_FAST, PEAP, LEAP, EAP\_MD5, EAP\_TLS, EAP\_TTLS, TEAP, property of the request body.
- **process\_host\_lookup** (*boolean*) – processHostLookup, property of the request body.
- **require\_message\_auth** (*boolean*) – requireMessageAuth, property of the request body.
- **teap** (*object*) – The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, allow_chap=None, allow_eap_fast=None, allow_eap_md5=None,
             allow_eap_tls=None, allow_eap_ttls=None, allow_leap=None, allow_ms_chap_v1=None,
             allow_ms_chap_v2=None, allow_pap_ascii=None, allow_peap=None,
             allow_preferred_eap_protocol=None, allow_teap=None, allow_weak_ciphers_for_eap=None,
             description=None, eap_fast=None, eap_tls=None, eap_tls_l_bit=None, eap_ttls=None,
             name=None, peap=None, preferred_eap_protocol=None, process_host_lookup=None,
             require_message_auth=None, teap=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for `update_allowed_protocol_by_id`

```
delete_allowed_protocol_by_id(id, headers=None, **query_parameters)
```

This API deletes an allowed protocol.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_allowed\_protocol\_by\_id*

**get\_allowed\_protocols** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the allowed protocols.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_allowed\\_protocols\*](#)

**get\_allowed\_protocols\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the allowed protocols.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_allowed\\_protocols\\_generator\*](#)

**create\_allowed\_protocol** (*allow\_chap=None, allow\_eap\_fast=None, allow\_eap\_md5=None, allow\_eap\_tls=None, allow\_eap\_ttls=None, allow\_leap=None, allow\_ms\_chap\_v1=None, allow\_ms\_chap\_v2=None, allow\_pap\_ascii=None, allow\_peap=None, allow\_preferred\_eap\_protocol=None, allow\_teap=None, allow\_weak\_ciphers\_for\_eap=None, description=None, eap\_fast=None, eap\_tls=None, eap\_tls\_l\_bit=None, eap\_ttls=None, name=None, peap=None, preferred\_eap\_protocol=None, process\_host\_lookup=None, require\_message\_auth=None, teap=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an allowed protocol.

#### Parameters

- **allow\_chap** (*boolean*) – allowChap, property of the request body.
- **allow\_eap\_fast** (*boolean*) – allowEapFast, property of the request body.
- **allow\_eap\_md5** (*boolean*) – allowEapMd5, property of the request body.



- **allow\_eap\_tls** (*boolean*) – allowEapTls, property of the request body.
- **allow\_eap\_ttls** (*boolean*) – allowEapTtls, property of the request body.
- **allow\_leap** (*boolean*) – allowLeap, property of the request body.
- **allow\_ms\_chap\_v1** (*boolean*) – allowMsChapV1, property of the request body.
- **allow\_ms\_chap\_v2** (*boolean*) – allowMsChapV2, property of the request body.
- **allow\_pap\_ascii** (*boolean*) – allowPapAscii, property of the request body.
- **allow\_peap** (*boolean*) – allowPeap, property of the request body.
- **allow\_preferred\_eap\_protocol** (*boolean*) – allowPreferredEapProtocol, property of the request body.
- **allow\_teap** (*boolean*) – allowTeap, property of the request body.
- **allow\_weak\_ciphers\_for\_eap** (*boolean*) – allowWeakCiphersForEap, property of the request body.
- **description** (*string*) – description, property of the request body.
- **eap\_fast** (*object*) – The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eapFast contains the settings for EAP FAST protocol, property of the request body.
- **eap\_tls** (*object*) – The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol, property of the request body.
- **eap\_tls\_l\_bit** (*boolean*) – eapTlsLBit, property of the request body.
- **eap\_ttls** (*object*) – The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **peap** (*object*) – peap, property of the request body.
- **preferred\_eap\_protocol** (*string*) – The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored. Allowed Values: EAP\_FAST, PEAP, LEAP, EAP\_MD5, EAP\_TLS, EAP\_TTLS, TEAP, property of the request body.
- **process\_host\_lookup** (*boolean*) – processHostLookup, property of the request body.
- **require\_message\_auth** (*boolean*) – requireMessageAuth, property of the request body.
- **teap** (*object*) – The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*allow\_chap=None, allow\_eap\_fast=None, allow\_eap\_md5=None, allow\_eap\_tls=None, allow\_eap\_ttls=None, allow\_leap=None, allow\_ms\_chap\_v1=None, allow\_ms\_chap\_v2=None, allow\_pap\_ascii=None, allow\_peap=None, allow\_preferred\_eap\_protocol=None, allow\_teap=None, allow\_weak\_ciphers\_for\_eap=None, description=None, eap\_fast=None, eap\_tls=None, eap\_tls\_l\_bit=None, eap\_ttls=None, name=None, peap=None, preferred\_eap\_protocol=None, process\_host\_lookup=None, require\_message\_auth=None, teap=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_allowed\_protocol*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the allowed protocols.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## anc\_policy

### class AncPolicy

Identity Services Engine AncPolicy API (version: 3.1.0).

Wraps the Identity Services Engine AncPolicy API and exposes the API as native Python methods that return native Python objects.

Adaptive Network Control (ANC) provides the ability to create network endpoint authorization controls based on ANC policies.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |  |

### Resource Definition

| Attribute   | Type   | Required | Description   | Example Values |
|-------------|--------|----------|---|----------------|
| name        | String | Yes      | Resource Name   |                |
| id          | String | No       | Resource ID   | test           |
| description | String | No       |   |                |
| action      | Enum   | Yes      | <ul style="list-style-type: none"> <li>• <b>QUARANTINE:</b><br/>Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network.</li> <li>• <b>PORTBOUNCE:</b><br/>Resets the port on the network device to which the endpoint is connected</li> <li>• <b>SHUTDOWN</b><br/>: Shuts down the port on the network device to which the endpoint is connected</li> <li>• <b>RE_AUTHENTICATE:</b><br/>Re-authenticates the session from the endpoint</li> </ul> |                |

**get\_anc\_policy\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC policy by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_policy\_by\_name*

**`get_anc_policy_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC policy by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_policy\_by\_id*

**`update_anc_policy_by_id`** (*id*, *actions=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an ANC policy.

**Parameters**

- **actions** (*list*) – QUARANTINE: Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network. PORTBOUNCE: Resets the port on the network device to which the endpoint is connected. SHUTDOWN : Shuts down the port on the network device to which the endpoint is connected. RE\_AUTHENTICATE: Re-authenticates the session from the endpoint., property of the request body (list of strings. Available values are ‘QUARANTINE’, ‘PORTBOUNCE’, ‘SHUTDOWN’ and ‘RE\_AUTHENTICATE’).
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *actions=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_anc\_policy\_by\_id*

**delete\_anc\_policy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to delete an ANC policy.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_anc\_policy\_by\_id*

**`get_anc_policy`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the ANC policies. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query string parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_anc\_policy*

**`get_anc_policy_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC policies. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.



- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *`get_anc_policy_generator`*

**`create_anc_policy`** (*actions=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create an ANC policy.

**Parameters**

- **`actions`** (*list*) – QUARANTINE: Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network. PORTBOUNCE: Resets the port on the network device to which the endpoint is connected. SHUTDOWN : Shuts down the port on the network device to which the endpoint is connected. RE\_AUTHENTICATE: Re-authenticates the session from the endpoint., property of the request body (list of strings. Available values are 'QUARANTINE', 'PORTBOUNCE', 'SHUTDOWN' and 'RE\_AUTHENTICATE').
- **`name`** (*string*) – name, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *`RestResponse`*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*actions=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_anc\_policy*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the ANC policy.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_anc\_policy** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request`** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *`bulk_request_for_anc_policy`*

**`monitor_bulk_status_anc_policy`** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**

- **`bulkid`** (*basestring*) – bulkid path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *`monitor_bulk_status_anc_policy`*

## authorization\_profile

### **class AuthorizationProfile**

Identity Services Engine AuthorizationProfile API (version: 3.1.0).

Wraps the Identity Services Engine AuthorizationProfile API and exposes the API as native Python methods that return native Python objects.

Authorization Profile API allows the client to add, delete, update, search and perform actions on authorization profiles.

## Revision History

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Ver-<br>sion | Description                               | Revi-<br>sion<br>Mod-<br>ifica-<br>tion | Revision Modification   |
|-------------------------|-------------------------------|------------------------------|---|---|---|
|                         |                               |                              |   | At-<br>tribute                          | Description   |
| 0                       | 1.0                           | 2.2                          | Initial Cisco ISE Version                 |   |   |
| 1                       | 1.1                           | 2.3                          | Support new attributes under common tasks | ac-<br>cessType                         | Added Attribute 'accessType'. Default value:'ACCESS_ACCEPT', additional values: 'ACCESS_REJECT'   |
|                         |                               |                              |   | au-<br>thzPro-<br>file-<br>Type         | Added Attribute 'authzProfileType' to differentiate between types of authorization profiles. Default value:'SWITCH' (used for Standard Authorization Profiles) , additional values:'TACACS', 'TRUSTSEC' |
|                         |                               |                              |   | reauth                                  | Added Attribute 'reauth' to determine reauthentication policy   |
|                         |                               |                              |   | we-<br>bRedi-<br>rec-<br>tion           | Added Attribute 'webRedirection' to support selection of portal redirection   |
|                         |                               |                              |   | acl                                     | Added String Attribute 'acl'  |
|                         |                               |                              |   | track-<br>Move-<br>ment                 | Added Boolean Attribute 'trackMovement'   |

## Resource Definition

| Attribute      | Type    | Required | Description         | Default Values | Example Val-<br>ues |
|----------------|---------|----------|---------------------|----------------|---------------------|
| name           | String  | Yes      | Resource Name       |                | name                |
| id             | String  | No       | Resource UUID value |                | id                  |
| description    | String  | No       |                     |                | description         |
| vlan           | List    | No       |                     |                |                     |
| • nameID       | String  | Yes      |                     |                | vlanName            |
| • tagID        | Integer | Yes      | Valid range is 0-31 |                | 1                   |
| airespaceACL   | String  | No       |                     |                | ACL                 |
| webRedirection | List    | No       |                     |                |                     |

Continued on next page

Table 6 – continued from previous page

|                                      |         |     |  |               |                                  |
|--------------------------------------|---------|-----|--|---------------|----------------------------------|
| • WebRedirectionType                 | String  | Yes | Value MUST be one of the following: CentralizedWebAuth, HotSpot, NativeSupplicantProvisioning, ClientProvisioning. The WebRedirectionType must fit the portalName                |               | CentralizedWebAuth               |
| • acl                                | String  | Yes |  |               | acl                              |
| • portalName                         | String  | Yes | A portal that exist in the DB and fits the WebRedirectionType  |               | Sponsored Guest Portal (default) |
| • staticIPHostNameFQDN               | String  | No  |  |               | 10.56.54.200                     |
| • displayCertificatesRenewalMessages | Boolean | No  | The displayCertificatesRenewalMessages is mandatory when 'WebRedirectionType' value is 'CentralizedWebAuth'. For all other 'WebRedirectionType' values the field must be ignored | true          |                                  |
| accessType                           | Enum    | No  | Allowed Values: ACCESS_ACCEPT, ACCESS_REJECT   | ACCESS_ACCEPT |                                  |
| authzProfileType                     | Enum    | No  | Allowed Values: SWITCH, TRUSTSEC, TACACS   | SWITCH        |                                  |

Continued on next page

Table 6 – continued from previous page

|                                   |         |     |   |       |                         |
|-----------------------------------|---------|-----|---|-------|-------------------------|
|                                   |         |     | SWITCH is used for Standard Authorization Profiles          |       |                         |
| profileName                       | String  | No  |   | Cisco |                         |
| acl                               | String  | No  |   |       | aclfilter               |
| daclName                          | String  | No  |   |       | PERMIT_ALL_IPV4_TRAFFIC |
| autoSmartPort                     | String  | No  |   |       | autoSmartPort           |
| interfaceTemplate                 | String  | No  |   |       | interfaceTemplate       |
| ipv6ACLFILTER                     | String  | No  |   |       | ipv6ACLFILTER           |
| avcProfile                        | String  | No  |   |       | avcProfile              |
| asaVpn                            | String  | No  |   |       | Cisco:cisco-call-type   |
| trackMovement                     | Boolean | No  |   | false |                         |
| serviceTemplate                   | Boolean | No  |   | false |                         |
| easywiredSession                  | Boolean | No  |   | false |                         |
| voiceDomainPerm                   | Boolean | No  |   | false |                         |
| neat                              | Boolean | No  |   | false |                         |
| webAuth                           | Boolean | No  |   | false |                         |
| macSecPolicy                      | Enum    | No  | Allowed Values: MUST_SECURE, MUST_NOT_SECURE, SHOULD_SECURE |       | MUST_SECURE             |
| reauth                            | List    | No  |   |       |                         |
| • connectivity                    | Enum    | Yes | Allowed Values: DEFAULT, RADIUS_REQUEST                     |       | RADIUS_REQUEST          |
| • timer                           | Integer | Yes | Valid range is 1-65535                                      |       | 1800                    |
| advancedAttributes                | List    | No  |   |       |                         |
| • leftHandSideDictionaryAttribute | List    | Yes | Left side Dictionary and Attribute                          |       |                         |
| • dictionaryName                  | String  | Yes | Dictionary name   |       |                         |
| • attributeName                   | String  | Yes | Attribute name  |       |                         |

Continued on next page

Table 6 – continued from previous page

|                                  |        |     |   |  |                         |
|----------------------------------|--------|-----|---|--|-------------------------|
| •<br>rightHandSideAttributeValue | List   | Yes | Attribute value can be of type AttributeValue or Advanced-DictionaryAttribute. For AttributeValue the value is String, For Advanced-Dictionary-Attribute the value is dictionaryName and attributeName properties |  |                         |
| ipv6DaclName                     | String | No  |   |  | PERMIT_ALL_IPV6_TRAFFIC |
| airespaceIPv6ACLString           | String | No  |   |  | ACL6                    |

**get\_authorization\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an authorization profile by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_authorization\_profile\_by\_name*

**get\_authorization\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an authorization profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_authorization\_profile\_by\_id*

**update\_authorization\_profile\_by\_id** (*id*, *access\_type=None*, *acl=None*, *advanced\_attributes=None*, *agentless\_posture=None*, *airespace\_acl=None*, *airespace\_ipv6\_acl=None*, *asa\_vpn=None*, *authz\_profile\_type=None*, *auto\_smart\_port=None*, *avc\_profile=None*, *dac1\_name=None*, *description=None*, *easy-wired\_session\_candidate=None*, *inter-face\_template=None*, *ipv6\_acl\_filter=None*, *ipv6\_dac1\_name=None*, *mac\_sec\_policy=None*, *name=None*, *neat=None*, *profile\_name=None*, *reauth=None*, *service\_template=None*, *track\_movement=None*, *vlan=None*, *voice\_domain\_permission=None*, *web\_auth=None*, *web\_redirection=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an authorization profile.

### Parameters

- **access\_type** (*string*) – Allowed Values: ACCESS\_ACCEPT, ACCESS\_REJECT, property of the request body.
- **acl** (*string*) – acl, property of the request body.
- **advanced\_attributes** (*list*) – advancedAttributes, property of the request body (list of objects).
- **agentless\_posture** (*boolean*) – agentlessPosture, property of the request body.
- **airespace\_acl** (*string*) – airespaceACL, property of the request body.



- **airespace\_ipv6\_acl** (*string*) – airespaceIPv6ACL, property of the request body.
- **asa\_vpn** (*string*) – asaVpn, property of the request body.
- **authz\_profile\_type** (*string*) – Allowed Values: SWITCH, TRUSTSEC, TACACS SWITCH is used for Standard Authorization Profiles, property of the request body.
- **auto\_smart\_port** (*string*) – autoSmartPort, property of the request body.
- **avc\_profile** (*string*) – avcProfile, property of the request body.
- **dacl\_name** (*string*) – daclName, property of the request body.
- **description** (*string*) – description, property of the request body.
- **easywired\_session\_candidate** (*boolean*) – easywiredSessionCandidate, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **interface\_template** (*string*) – interfaceTemplate, property of the request body.
- **ipv6\_acl\_filter** (*string*) – ipv6ACLFILTER, property of the request body.
- **ipv6\_dacl\_name** (*string*) – ipv6DaclName, property of the request body.
- **mac\_sec\_policy** (*string*) – Allowed Values: MUST\_SECURE, MUST\_NOT\_SECURE, SHOULD\_SECURE, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **neat** (*boolean*) – neat, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **reauth** (*object*) – reauth, property of the request body.
- **service\_template** (*boolean*) – serviceTemplate, property of the request body.
- **track\_movement** (*boolean*) – trackMovement, property of the request body.
- **vlan** (*object*) – vlan, property of the request body.
- **voice\_domain\_permission** (*boolean*) – voiceDomainPermission, property of the request body.
- **web\_auth** (*boolean*) – webAuth, property of the request body.
- **web\_redirection** (*object*) – webRedirection, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *access\_type=None*, *acl=None*, *advanced\_attributes=None*, *agent-less\_posture=None*, *airespace\_acl=None*, *airespace\_ipv6\_acl=None*, *asa\_vpn=None*, *authz\_profile\_type=None*, *auto\_smart\_port=None*, *avc\_profile=None*, *dacl\_name=None*, *description=None*, *easywired\_session\_candidate=None*, *interface\_template=None*, *ipv6\_acl\_filter=None*, *ipv6\_dacl\_name=None*, *mac\_sec\_policy=None*, *name=None*, *neat=None*, *profile\_name=None*, *reauth=None*, *service\_template=None*, *track\_movement=None*, *vlan=None*, *voice\_domain\_permission=None*, *web\_auth=None*, *web\_redirection=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_authorization\_profile\_by\_id*

**delete\_authorization\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an authorization profile.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_authorization\_profile\_by\_id*

**get\_authorization\_profiles** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all authorization profiles.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_authorization\_profiles*

**get\_authorization\_profiles\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all authorization profiles.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [get\\_authorization\\_profiles\\_generator](#)

**create\_authorization\_profile** (*access\_type=None, acl=None, advanced\_attributes=None, agentless\_posture=None, airespace\_acl=None, airespace\_ipv6\_acl=None, asa\_vpn=None, authz\_profile\_type=None, auto\_smart\_port=None, avc\_profile=None, dacl\_name=None, description=None, easywired\_session\_candidate=None, id=None, interface\_template=None, ipv6\_acl\_filter=None, ipv6\_dacl\_name=None, mac\_sec\_policy=None, name=None, neat=None, profile\_name=None, reauth=None, service\_template=None, track\_movement=None, vlan=None, voice\_domain\_permission=None, web\_auth=None, web\_redirection=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an authorization profile.

**Parameters**

- **access\_type** (*string*) – Allowed Values: ACCESS\_ACCEPT, ACCESS\_REJECT, property of the request body.
- **acl** (*string*) – acl, property of the request body.
- **advanced\_attributes** (*list*) – advancedAttributes, property of the request body (list of objects).
- **agentless\_posture** (*boolean*) – agentlessPosture, property of the request body.
- **airespace\_acl** (*string*) – airespaceACL, property of the request body.
- **airespace\_ipv6\_acl** (*string*) – airespaceIPv6ACL, property of the request body.
- **asa\_vpn** (*string*) – asaVpn, property of the request body.
- **authz\_profile\_type** (*string*) – Allowed Values: SWITCH, TRUSTSEC, TACACS SWITCH is used for Standard Authorization Profiles, property of the request body.
- **auto\_smart\_port** (*string*) – autoSmartPort, property of the request body.
- **avc\_profile** (*string*) – avcProfile, property of the request body.
- **dacl\_name** (*string*) – daclName, property of the request body.
- **description** (*string*) – description, property of the request body.
- **easywired\_session\_candidate** (*boolean*) – easywiredSessionCandidate, property of the request body.
- **id** (*string*) – Resource UUID value, property of the request body.
- **interface\_template** (*string*) – interfaceTemplate, property of the request body.
- **ipv6\_acl\_filter** (*string*) – ipv6ACLFILTER, property of the request body.

- **ipv6\_dacl\_name** (*string*) – ipv6DaclName, property of the request body.
- **mac\_sec\_policy** (*string*) – Allowed Values: MUST\_SECURE, MUST\_NOT\_SECURE, SHOULD\_SECURE, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **neat** (*boolean*) – neat, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **reauth** (*object*) – reauth, property of the request body.
- **service\_template** (*boolean*) – serviceTemplate, property of the request body.
- **track\_movement** (*boolean*) – trackMovement, property of the request body.
- **vlan** (*object*) – vlan, property of the request body.
- **voice\_domain\_permission** (*boolean*) – voiceDomainPermission, property of the request body.
- **web\_auth** (*boolean*) – webAuth, property of the request body.
- **web\_redirection** (*object*) – webRedirection, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

## Return type *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*access\_type=None, acl=None, advanced\_attributes=None, agentless\_posture=None, airespace\_acl=None, airespace\_ipv6\_acl=None, asa\_vpn=None, authz\_profile\_type=None, auto\_smart\_port=None, avc\_profile=None, dacl\_name=None, description=None, easy-wired\_session\_candidate=None, id=None, interface\_template=None, ipv6\_acl\_filter=None, ipv6\_dacl\_name=None, mac\_sec\_policy=None, name=None, neat=None, profile\_name=None, reauth=None, service\_template=None, track\_movement=None, vlan=None, voice\_domain\_permission=None, web\_auth=None, web\_redirection=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_authorization\_profile*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the authorization profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## byod\_portal

### class ByodPortal

Identity Services Engine BYODPortal API (version: 3.1.0).

Wraps the Identity Services Engine BYODPortal API and exposes the API as native Python methods that return native Python objects.

BYOD Portal API provides the ability to Create, Read, Update, Delete and Search BYOD portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute | Type | Required | Description | Default Values | Example Values |
|-----------|------|----------|-------------|----------------|----------------|
|-----------|------|----------|-------------|----------------|----------------|

Continued on next page

Table 7 – continued from previous page

|                  |         |     |   |      |   |
|------------------|---------|-----|---|------|---|
| name             | String  | Yes | Resource Name   |      | BYOD Portal (default)   |
| id               | String  | No  | Resource UUID, mandatory for update   |      | 9a9b910c-54d3-44a4-a3c3-dd007c171599  |
| description      | String  | No  |   |      | Default portal and user experience used when employees register a personal device on the network  |
| portalTestUrl    | String  | No  | URL to bring up a test page for this portal   |      | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portalId=9a9b910c-54d3-44a4-a3c3-dd007c171599">https://{ise-ip}:8443/portal/PortalSetup.action?portalId=9a9b910c-54d3-44a4-a3c3-dd007c171599</a> |
| portalType       | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSORED, GUEST | BYOD |   |
| settings         | List    | No  | Defines all of the settings groups available for a BYOD                               |      |   |
| • portalSettings | List    | No  | The port, interface, certificate, and other basic settings of a portal                |      |   |
| • httpsPort      | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999   |      | 8443  |

Continued on next page

Table 7 – continued from previous page

|                            |         |     |  |      |                                  |
|----------------------------|---------|-----|--|------|----------------------------------|
| •<br>allowedInterfaces     | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 |      | [ "eth0", "bond0" ]              |
| •<br>certificateGroupTag   | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  |      | Default Portal Certificate Group |
| •<br>endpointIdentityGroup | String  | Yes | Unique Id of the endpoint identity group where user's devices will be added. Used only in Hotspot Portal                 |      |                                  |
| •<br>displayLang           | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  |      | USEBROWSERLOCALE                 |
| •<br>fallbackLanguage      | String  | No  | Used when displayLang = USE-BROWSER-LOCALE   |      | English                          |
| •<br>alwaysUsedLanguage    | String  | No  | Used when displayLang = ALWAYSUSE  |      | English                          |
| •<br>byodSettings          | List    | No  | Configuration of BYOD Device Welcome, Registration and Success steps   |      |                                  |
| •<br>byodWelcomeSettings   | List    | No  | Configuration of BYOD endpoint welcome step configuration  |      |                                  |
| •<br>enableBYOD            | Boolean | No  |  | true |                                  |

Continued on next page



Table 7 – continued from previous page

|                            |         |    |   |        |                                      |
|----------------------------|---------|----|---|--------|--------------------------------------|
| • enableGuestAccess        | Boolean | No |   | false  |                                      |
| • requireMDM               | Boolean | No |   | false  |                                      |
| • includeAup               | Boolean | No |   | true   |                                      |
| • aupDisplay               | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ONPAGE |                                      |
| • requireAupAcceptance     | Boolean | No |   | false  |                                      |
| • requireScrolling         | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true                                 | false  |                                      |
| • byodRegistrationSettings | List    | No | Configuration of BYOD endpoint Registration step configuration  |        |                                      |
| • showDeviceID             | Boolean | No | Display Device ID field during registration   | true   |                                      |
| • endPointIdentityGroupId  | String  | No | Identity group id for which endpoint belongs  |        | aa13bb40-8bff-11e6-996c-525400b48521 |

Continued on next page

Table 7 – continued from previous page

|                                      |         |    |   |                 |              |
|--------------------------------------|---------|----|---|-----------------|--------------|
| •<br>byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration  |                 |              |
| •<br>successRedirect                 | Enum    | No | After an Authentication Success where should device be redirected.      | AUTHSUCCESSPAGE |              |
| •<br>redirectUrl                     | String  | No | Target URL for redirection, used when successRedirect = URL             |                 | Redirect URL |
| •<br>supportInfoSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration               |                 |              |
| •<br>includeSupportInfoPage          | Boolean | No |   | false           |              |
| •<br>includeMacAddr                  | Boolean | No |   | false           |              |
| •<br>includeIpAddress                | Boolean | No |   | false           |              |
| •<br>includeBrowserUserAgent         | Boolean | No |   | false           |              |
| •<br>includePolicyServer             | Boolean | No |   | false           |              |
| •<br>includeFailureCode              | Boolean | No |   | false           |              |
| •<br>emptyFieldDisplay               | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |                 | HIDE         |

Continued on next page

Table 7 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available for a BYOD   |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 7 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 7 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | BYOD Portal                    |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 7 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_byod\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a BYOD portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_byod\_portal\_by\_id*

**update\_byod\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a BYOD portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available for a BYOD, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – Resource UUID, mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **id** – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_byod\_portal\_by\_id*

**delete\_byod\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a BYOD portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_byod\_portal\_by\_id*

**get\_byod\_portal** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the BYOD portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_byod\_portal*

**get\_byod\_portal\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the BYOD portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_byod\_portal\_generator*

**create\_byod\_portal** (*customizations=None, description=None, id=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a BYOD portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available for a BYOD, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – Resource UUID, mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, id=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_byod\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the BYOD portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## backup\_and\_restore

### class BackupAndRestore

Identity Services Engine Backup And Restore API (version: 3.1.0).

Wraps the Identity Services Engine Backup And Restore API and exposes the API as native Python methods that return native Python objects.

**config\_backup** (*backup\_encryption\_key=None, backup\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers on demand configuration backup on the ISE node. The API returns the task ID. Use the Task Service status API to get the status of the backup job.

#### Parameters

- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CcliSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**config** (*backup\_encryption\_key=None, backup\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *config\_backup*

**cancel\_backup** (*headers=None, \*\*query\_parameters*)

Cancels the backup job running on the node.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**cancel** (*headers=None, \*\*query\_parameters*)

Alias for *cancel\_backup*

**get\_last\_config\_backup\_status** (*headers=None, \*\*query\_parameters*)

Gives the last backup status.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_last\_status** (*headers=None, \*\*query\_parameters*)

Alias for *get\_last\_config\_backup\_status*

```
restore_config_backup (backup_encryption_key=None, repository_name=None, re-  
store_file=None, restore_include_adeos=None, headers=None,  
payload=None, active_validation=True, **query_parameters)
```

Triggers a configuration DB restore job on the ISE node. The API returns the task ID. Use the Task Service status API to get the status of the backup job.

#### Parameters

- **backup\_encryption\_key** (*string*) – The encryption key which was provided at the time of taking backup., property of the request body.
- **repository\_name** (*string*) – Name of the configed repository where the backup file exists., property of the request body.
- **restore\_file** (*string*) – Name of the backup file to be restored on ISE node., property of the request body.
- **restore\_include\_adeos** (*string*) – Determines whether the ADE-OS configure is restored. Possible values true, false, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
restore (backup_encryption_key=None, repository_name=None, restore_file=None, re-  
store_include_adeos=None, headers=None, payload=None, active_validation=True,  
**query_parameters)
```

Alias for *restore\_config\_backup*

```
update_scheduled_config_backup (backup_description=None, backup_encryption_key=None,  
backup_name=None, end_date=None, frequency=None,  
month_day=None, repository_name=None,  
start_date=None, status=None, time=None,  
week_day=None, headers=None, payload=None, ac-  
tive_validation=True, **query_parameters)
```

Update the Schedule of the configuration backup on the ISE node as per the input parameters. This API only helps in editing the schedule.

## Parameters

- **backup\_description** (*string*) – Description of the backup., property of the request body.
- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CcLiSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **end\_date** (*string*) – End date of the scheduled backup job. Allowed format MM/DD/YYYY. End date is not required in case of ONE\_TIME frequency., property of the request body.
- **frequency** (*string*) – Frequency with which the backup will get scheduled in the ISE node., property of the request body. Available values are 'DAILY', 'MONTHLY', 'ONCE' and 'WEEKLY'.
- **month\_day** (*string*) – Day of month you want backup to be performed on when scheduled frequency is MONTHLY. Allowed values from 1 to 28., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **start\_date** (*string*) – Start date for scheduling the backup job. Allowed format MM/DD/YYYY., property of the request body.
- **status** (*string*) – Enable or disable scheduled backup., property of the request body. Available values are 'DISABLE' and 'ENABLE'.
- **time** (*string*) – Time at which backup job get scheduled. example 12:00 AM, property of the request body.
- **week\_day** (*string*) – Day of week you want backup to be performed on when scheduled frequency is WEEKLY, property of the request body. Available values are 'FRI', 'MON', 'SAT', 'SUN', 'THU', 'TUE' and 'WED'.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type [RestResponse](#)

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *update\_scheduled\_config\_backup*

**create\_scheduled\_config\_backup** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Schedules the configuration backup on the ISE node as per the input parameters. This API helps in creating the schedule for the first time.

### Parameters

- **backup\_description** (*string*) – Description of the backup., property of the request body.
- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CcliSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **end\_date** (*string*) – End date of the scheduled backup job. Allowed format MM/DD/YYYY. End date is not required in case of ONE\_TIME frequency., property of the request body.
- **frequency** (*string*) – Frequency with which the backup will get scheduled in the ISE node., property of the request body. Available values are 'DAILY', 'MONTHLY', 'ONCE' and 'WEEKLY'.
- **month\_day** (*string*) – Day of month you want backup to be performed on when scheduled frequency is MONTHLY. Allowed values from 1 to 28., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **start\_date** (*string*) – Start date for scheduling the backup job. Allowed format MM/DD/YYYY., property of the request body.
- **status** (*string*) – Enable or disable scheduled backup., property of the request body. Available values are 'DISABLE' and 'ENABLE'.
- **time** (*string*) – Time at which backup job get scheduled. example 12:00 AM, property of the request body.



- **week\_day** (*string*) – Day of week you want backup to be performed on when scheduled frequency is WEEKLY, property of the request body. Available values are ‘FRI’, ‘MON’, ‘SAT’, ‘SUN’, ‘THU’, ‘TUE’ and ‘WED’.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_scheduled\_config\_backup*

## certificate\_profile

### class CertificateProfile

Identity Services Engine CertificateProfile API (version: 3.1.0).

Wraps the Identity Services Engine CertificateProfile API and exposes the API as native Python methods that return native Python objects.

The certificate profile API allows the client to add, search and perform actions on the certificate profiles.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |  |

## Resource Definition

| Attribute                    | Type    | Required | Description   | Default Values      | Example Values                      |
|------------------------------|---------|----------|---|---------------------|-------------------------------------|
| name                         | String  | Yes      | Resource Name   |                     | Certificate_Profile                 |
| id                           | String  | No       | Resource UUID   |                     | f9269682-dcaf-11e3-ad0a-5bdc2d9fd69 |
| description                  | String  | No       |   |                     |                                     |
| allowedAsUserName            | Boolean | No       | To be set true or false   | false               |                                     |
| external-identity-store-name | String  | No       | Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen   | [not applicable]    | [not applicable]                    |
| certificate-attribute-name   | ENUM    | No       | Attribute name of the Certificate Profile - used only when CERTIFICATE is chosen in usernameFrom. Allowed values: - SUBJECT_COMMON_NAME - SUBJECT_ALTERNATIVE_NAME - SUBJECT_SERIAL_NUMBER - SUBJECT - SUBJECT_ALTERNATIVE_NAME_OTHER_NAME - SUBJECT_ALTERNATIVE_NAME_EMAIL - SUBJECT_ALTERNATIVE_NAME_DNS. - Additional internal value ALL_SUBJECT_AND_ALTERNATIVE_NAMES is used automatically when usernameFrom=UPN | SUBJECT_COMMON_NAME |                                     |
| match-Mode                   | ENUM    | No       | Match mode of the Certificate Profile. Allowed values: NEVER, RESOLVE_IDENTITY_AMBIGUITY, BINARY_COMPARISON   | NEVER               |                                     |
| user-name-From               | ENUM    | No       | The attribute in the certificate where the user name should be taken from.  | CERTIFICATE         |                                     |

**get\_certificate\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate profile by name.

## Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile\_by\_name*

**get\_certificate\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile\_by\_id*

```
update_certificate_profile_by_id(id, allowed_as_user_name=None, certificate_attribute_name=None, description=None, external_identity_store_name=None, match_mode=None, name=None, username_from=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a certificate profile.

#### Parameters

- **allowed\_as\_user\_name** (*boolean*) – allowedAsUserName, property of the request body.
- **certificate\_attribute\_name** (*string*) – Attribute name of the Certificate Profile used only when CERTIFICATE is chosen in usernameFrom. Allowed values: SUBJECT\_COMMON\_NAME SUBJECT\_ALTERNATIVE\_NAME SUBJECT\_SERIAL\_NUMBER SUBJECT\_ALTERNATIVE\_NAME\_OTHER\_NAME SUBJECT\_ALTERNATIVE\_NAME\_EMAIL SUBJECT\_ALTERNATIVE\_NAME\_DNS. Additional internal value ALL\_SUBJECT\_AND\_ALTERNATIVE\_NAMES is used automatically when usernameFrom=UPN, property of the request body.
- **description** (*string*) – description, property of the request body.
- **external\_identity\_store\_name** (*string*) – Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **match\_mode** (*string*) – Match mode of the Certificate Profile. Allowed values: NEVER RESOLVE\_IDENTITY\_AMBIGUITY BINARY\_COMPARISON, property of the request body.
- **name** (*string*) – name, property of the request body.
- **username\_from** (*string*) – The attribute in the certificate where the user name should be taken from. Allowed values: CERTIFICATE (for a specific attribute as defined in certificateAttributeName) UPN (for using any Subject or Alternative Name Attributes in the Certificate an option only in AD), property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *allowed\_as\_user\_name=None*, *certificate\_attribute\_name=None*, *description=None*, *external\_identity\_store\_name=None*, *match\_mode=None*, *name=None*, *username\_from=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_certificate\_profile\_by\_id*

**get\_certificate\_profile** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the certificate profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile*

**get\_certificate\_profile\_generator** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the certificate profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_certificate\_profile\_generator*

**create\_certificate\_profile** (*allowed\_as\_user\_name=None, certificate\_attribute\_name=None, description=None, external\_identity\_store\_name=None, id=None, match\_mode=None, name=None, username\_from=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a certificate profile.

### Parameters

- **allowed\_as\_user\_name** (*boolean*) – allowedAsUserName, property of the request body.
- **certificate\_attribute\_name** (*string*) – Attribute name of the Certificate Profile used only when CERTIFICATE is chosen in usernameFrom. Allowed values: SUBJECT\_COMMON\_NAME SUBJECT\_ALTERNATIVE\_NAME SUBJECT\_SERIAL\_NUMBER SUBJECT SUBJECT\_ALTERNATIVE\_NAME\_OTHER\_NAME SUBJECT\_ALTERNATIVE\_NAME\_EMAIL SUBJECT\_ALTERNATIVE\_NAME\_DNS. Additional internal value ALL\_SUBJECT\_AND\_ALTERNATIVE\_NAMES is used automatically when usernameFrom=UPN, property of the request body.
- **description** (*string*) – description, property of the request body.
- **external\_identity\_store\_name** (*string*) – Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen, property of the request body.
- **id** (*string*) – id, property of the request body.
- **match\_mode** (*string*) – Match mode of the Certificate Profile. Allowed values: NEVER RESOLVE\_IDENTITY\_AMBIGUITY BINARY\_COMPARISON, property of the request body.
- **name** (*string*) – name, property of the request body.

- **username\_from** (*string*) – The attribute in the certificate where the user name should be taken from. Allowed values: CERTIFICATE (for a specific attribute as defined in certificateAttributeName) UPN (for using any Subject or Alternative Name Attributes in the Certificate an option only in AD), property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (allowed_as_user_name=None, certificate_attribute_name=None, description=None,
external_identity_store_name=None, id=None, match_mode=None, name=None,
username_from=None, headers=None, payload=None, active_validation=True,
**query_parameters)
```

Alias for *create\_certificate\_profile*

```
get_version (headers=None, **query_parameters)
```

This API helps to retrieve the version information related to the certificate profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**certificate\_template****class CertificateTemplate**

Identity Services Engine CertificateTemplate API (version: 3.1.0).

Wraps the Identity Services Engine CertificateTemplate API and exposes the API as native Python methods that return native Python objects.

The certificate template API provides the ability to search for certificate templates.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |

**Resource Definition**

| Attribute      | Type     | Re-quired | Description   | Example Values                       |
|----------------|----------|-----------|---|--------------------------------------|
| name           | String   | Yes       | Resource Name   |                                      |
| id             | String   | No        | Resource UUID   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| descrip-tion   | String   | No        |   |                                      |
| raProfile-Name | String   | Yes       | RA profile for the Certificate template                               | ISE internal CA                      |
| keySize        | Inte-ger | No        | Key Size of the Certificate Template                                  | 2048 1024                            |
| validity       | Inte-ger | No        | Validity period of the Certificate Template:<br>Valid Range 21 - 3652 | 730                                  |

**get\_certificate\_template\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate template by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_certificate_template_by_name`*

**`get_certificate_template_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate template by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_certificate_template_by_id`*

**`get_certificate_template`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get aall the certificate templates.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_certificate\_template*

**get\_certificate\_template\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get aall the certificate templates.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_certificate\_template\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the certificate template.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## certificates

### class Certificates

Identity Services Engine Certificates API (version: 3.1.0).

Wraps the Identity Services Engine Certificates API and exposes the API as native Python methods that return native Python objects.

**get\_csrs** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject timeStamp Supported Date Format: yyyy-MM-dd HH:mm:ss.SSS Supported Operators: EQ, NEQ, GT and LT .

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_csrs\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject timeStamp Supported Date Format: yyyy-MM-dd HH:mm:ss.SSS Supported Operators: EQ, NEQ, GT and LT .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data

model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**generate\_csr** (*allow\_wild\_card\_cert=None, certificate\_policies=None, digest\_type=None, hostnames=None, key\_length=None, key\_type=None, portal\_group\_tag=None, san\_dir=None, san\_dns=None, san\_ip=None, san\_uri=None, subject\_city=None, subject\_common\_name=None, subject\_country=None, subject\_org=None, subject\_org\_unit=None, subject\_state=None, used\_for=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Generate a certificate signing request for Multi-Use, Admin, EAP Authentication, RADIUS DTLS, Px-Grid, SAML, Portal and IMS Services. Following Parameters are present in POST request body  
**PARAMETER DESCRIPTION**  
**EXAMPLE** hostnames List of ise node hostnames for which CSRs should be generated [ise-host1, ise- host2]  
 allowWildCardCert Allow use of WildCards in certificates false  
 keyLength Length of the Key used for CSR generation (required) 512  
 keyType Type of key used for CSR generation either RSA or ECDSA(required) RSA  
 digestType Hash algorithm used for signing CSR(required) SHA-256  
 usedFor Certificate Usage(required) MULTI-USE  
 subjectCommonName Certificate common name(CN)(required) \$FQDN\$  
 subjectOrgUnit Certificate organizational unit(OU) Engineering  
 subjectOrg Certificate organization (O) Cisco  
 subjectCity Certificate city or locality (L) San Jose  
 subjectState Certificate state (ST) California  
 subjectCountry Certificate country ( C) US  
 sanDNS Array of SAN(Subject Alternative Name) DNS entries(optional) [ise.example.com]  
 sanIP Array of SAN IP entries(optional) [1.1.1.1]  
 sanURI Array of SAN URI entries(optional) [https://1.1.1.1]  
 sanDir Array of SAN DIR entries(optional) [CN=AAA,DC=COM,C=IL]  
 portalGroupTag Portal Group Tag when using certificate for PORTAL service Default Portal Certificate Group  
**NOTE:** For allowWildCardCert to be false, the below mentioned parameter is mandatory: hostnames  
 When Certificate is selected to be used for Portal Service, the below mentioned parameter is mandatory: portalGroupTag .

### Parameters

- **allow\_wild\_card\_cert** (*boolean*) – allowWildCardCert, property of the request body.
- **certificate\_policies** (*string*) – certificatePolicies, property of the request body.
- **digest\_type** (*string*) – digestType, property of the request body. Available values are 'SHA-256', 'SHA-384' and 'SHA-512'.
- **hostnames** (*list*) – hostnames, property of the request body (list of strings).
- **key\_length** (*string*) – keyLength, property of the request body. Available values are '1024', '2048', '4096' and '512'.
- **key\_type** (*string*) – keyType, property of the request body. Available values are 'ECDSA' and 'RSA'.
- **portal\_group\_tag** (*string*) – portalGroupTag, property of the request body.
- **san\_dns** (*list*) – sanDNS, property of the request body (list of strings).
- **san\_dir** (*list*) – sanDir, property of the request body (list of strings).
- **san\_ip** (*list*) – sanIP, property of the request body (list of strings).
- **san\_uri** (*list*) – sanURI, property of the request body (list of strings).
- **subject\_city** (*string*) – subjectCity, property of the request body.
- **subject\_common\_name** (*string*) – subjectCommonName, property of the request body.
- **subject\_country** (*string*) – subjectCountry, property of the request body.
- **subject\_org** (*string*) – subjectOrg, property of the request body.
- **subject\_org\_unit** (*string*) – subjectOrgUnit, property of the request body.
- **subject\_state** (*string*) – subjectState, property of the request body.
- **used\_for** (*string*) – usedFor, property of the request body. Available values are 'ADMIN', 'DTLS-AUTH', 'EAP-AUTH', 'IMS', 'MULTI-USE', 'PORTAL', 'PXGRID' and 'SAML'.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**export\_csr** (*hostname*, *id*, *dirpath*=None, *save\_file*=None, *filename*=None, *headers*=None, *\*\*query\_parameters*)

The response of this API carries a CSR corresponding to the requested ID.

**Parameters**

- **hostname** (*basestring*) – hostname path parameter. The hostname to which the CSR belongs.
- **id** (*basestring*) – id path parameter. The ID of the CSR to be exported.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns** The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

**generate\_intermediate\_ca\_csr** (*headers*=None, *\*\*query\_parameters*)

CSR Generation for Intermediate Certificates.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_csr\_by\_id** (*host\_name*, *id*, *headers=None*, *\*\*query\_parameters*)

This API displays details of a Certificate Signing Request of a particular node based on a given HostName and ID.

**Parameters**

- **host\_name** (*basestring*) – hostName path parameter. Name of the host of which CSR's should be returned.
- **id** (*basestring*) – id path parameter. The ID of the Certificate Signing Request returned.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_csr\_by\_id** (*host\_name*, *id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a Certificate Signing Request of a particular node based on a given HostName and ID.

**Parameters**

- **host\_name** (*basestring*) – hostName path parameter. Name of the host of which CSR's should be deleted.
- **id** (*basestring*) – id path parameter. The ID of the Certificate Signing Request to be deleted.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`regenerate_ise_root_ca`** (*remove\_existing\_ise\_intermediate\_csr=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API will initiate regeneration of ISE root CA certificate chain. Response contains id which can be used to track the status. Setting “removeExistingISEIntermediateCSR” to true will remove existing ISE Intermediate CSR.

**Parameters**

- **`remove_existing_ise_intermediate_csr`** (*boolean*) – Setting this attribute to true will remove existing ISE Intermediate CSR, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**renew\_certificates** (*cert\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API will initiate regeneration of certificates. Response contains id which can be used to track the status.

#### Parameters

- **cert\_type** (*string*) – certType, property of the request body. Available values are ‘IMS’ and ‘OCSP’.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bind\_csr** (*admin=None, allow\_extended\_validity=None, allow\_out\_of\_date\_cert=None, allow\_replacement\_of\_certificates=None, allow\_replacement\_of\_portal\_group\_tag=None, data=None, eap=None, host\_name=None, id=None, ims=None, name=None, portal=None, portal\_group\_tag=None, pxgrid=None, radius=None, saml=None, validate\_certificate\_extensions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

**Bind CA Signed Certificate. NOTE: This API requires an** existing Certificate Signing Request, and the root certificate must already be trusted. NOTE: The certificate may have a validity period longer than 398 days. It may be untrusted by many browsers. NOTE: Request Parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following Parameters are used in POST body  
PARAMETER DESCRIPTION EXAMPLE name Friendly name of the certificate. Signed Certificate  
data Plain-text contents of the certificate file. Every space needs to be replaced with newline escape sequence (

) (required). awk ‘NF {sub(/

/, “”); printf “%sn”, \$0;}’ <<your .pem file>> allowExtendedValidity Allow the certificates greater than validity of 398 days (required) false allowOutOfDateCert Allow out of date certificates (required) false allowReplacementOfCertificates Allow Replacement of certificates (required) false allowReplacementOfPortalGroupTag Allow Replacement of Portal Group Tag (required) false admin Use certificate to authenticate the ISE Admin Portal false eap Use certificate for EAP protocols that use

SSL/TLS tunneling false radius Use certificate for RADSec server false pxgrid Use certificate for the pxGrid Controller false ims Use certificate for the ISE Messaging Service false saml Use certificate for SAML Signing false portal Use certificate for portal false portalGroupTag Portal Group Tag for using certificate with portal role Default Portal Certificate Group validateCertificateExtensions Validate Certificate Extensions false Following Roles can be used in any combinations ROLE DEFAULT WARNING Admin False Enabling Admin role for this certificate will cause an application server restart on the selected node. Note: Make sure required Certificate Chain is imported under Trusted Certificates EAP Authentication False Only one system certificate can be used for EAP. Assigning EAP to this certificate will remove the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates RADIUS DTLS False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate will remove the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates SAML False SAML cannot be used with other Usage. Enabling SAML will uncheck all other Usage. Note: Make sure required Certificate Chain is imported under Trusted Certificates .

#### Args:

**admin(boolean):** Use certificate to authenticate the ISE Admin Portal, property of the request body.

**allow\_extended\_validity(boolean):** Allow import of certificates with validity greater than 398 days (required), property of the request body.

**allow\_out\_of\_date\_cert(boolean):** Allow out of date certificates (required), property of the request body.

**allow\_replacement\_of\_certificates(boolean):** Allow Replacement of certificates (required), property of the request body.

**allow\_replacement\_of\_portal\_group\_tag(boolean):** Allow Replacement of Portal Group Tag (required), property of the request body.

**data(string):** Signed Certificate data (required), property of the request body.

**eap(boolean):** Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.

**host\_name(string):** Name of Host whose CSR ID has been provided (required), property of the request body.

**id(string):** ID of the generated CSR (required), property of the request body.

**ims(boolean):** Use certificate for the ISE Messaging Service, property of the request body.

**name(string):** Friendly Name of the certificate, property of the request body.

**portal(boolean):** Use for portal, property of the request body.

**portal\_group\_tag(string):** Set Group tag, property of the request body.

**pxgrid(boolean):** Use certificate for the pxGrid Controller, property of the request body.

**radius(boolean):** Use certificate for the RADSec server, property of the request body.

**saml(boolean):** Use certificate for SAML Signing, property of the request body.

**validate\_certificate\_extensions(boolean):** Validate Certificate Extensions, property of the request body.

**headers(dict):** Dictionary of HTTP Headers to send with the Request .

**payload(dict):** A JSON serializable Python object to send in the body of the Request.

**active\_validation(bool):** Enable/Disable payload validation. Defaults to True.

**\*\*query\_parameters:** Additional query parameters (provides support for parameters that may be added in the future).

Returns:

RestResponse: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Raises:** TypeError: If the parameter types are incorrect. MalformedRequest: If the request body created is invalid. ApiError: If the Identity Services Engine cloud returns an error.

**export\_system\_certificate** (*export=None, id=None, password=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Export System Certificate. Following Parameters are used in POST body  
PARAMETER DESCRIPTION EXAMPLE  
id ID of a System Certificate(required) < SYSTEM\_CERT\_ID >  
export One of the below option is required "CERTIFICATE" : Export only Certificate without Private Key "CERTIFICATE\_WITH\_PRIVATE\_KEY" : Export both Certificate and Private Key( "certificatePassword" is required)  
CERTIFICATE\_WITH\_PRIVATE\_KEY password Certificate Password (required if "export" : CERTIFICATE\_WITH\_PRIVATE\_KEY )  
Password Constraints: Alphanumeric Minimum of 8 Characters Maximum of 100 Characters  
Passw\*\*\* NOTE: The response of this API carries a ZIP file containing the certificate and private key if "export" : "CERTIFICATE\_WITH\_PRIVATE\_KEY" in the request. If "export" : "CERTIFICATE" in request body, the response carries a ZIP file containing only the certificate.  
WARNING: Exporting a private key is not a secure operation. It could lead to possible exposure of the private key. .

#### Parameters

- **export** (*string*) – export, property of the request body. Available values are 'CERTIFICATE' and 'CERTIFICATE\_WITH\_PRIVATE\_KEY'.
- **id** (*string*) – id, property of the request body.
- **password** (*string*) – password, property of the request body.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

```
import_system_certificate (admin=None, allow_extended_validity=None,
                           allow_out_of_date_cert=None, al-
                           low_replacement_of_certificates=None, al-
                           low_replacement_of_portal_group_tag=None, al-
                           low_sha1_certificates=None, allow_wild_card_certificates=None,
                           data=None, eap=None, ims=None, name=None, pass-
                           word=None, portal=None, portal_group_tag=None,
                           portal_tag_transfer_for_same_subject=None, pri-
                           vate_key_data=None, pxgrid=None, radius=None,
                           role_transfer_for_same_subject=None, saml=None, val-
                           idate_certificate_extensions=None, headers=None, pay-
                           load=None, active_validation=True, **query_parameters)
```

**Import an X509 certificate as a system certificate. NOTE:** The certificate may have a validity period longer than 398 days. It may be untrusted by many browsers. NOTE: Request Parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following Parameters are used in POST body PARAMETER DESCRIPTION EXAMPLE name Friendly name of the certificate. System Certificate password Password of the certificate to be imported (required). Passw\*\*\* data Plain-text contents of the certificate file. Every space needs to be replaced with newline escape sequence (

) (required). awk 'NF {sub(/

/, ""); printf "%sn", \$0;}' <<your .pem file>> privateKeyData Plain-text contents of the private key file. Every space needs to be replaced with newline escape sequence (

) (required). awk 'NF {sub(/ /,

"""); printf "%sn", \$0;}' <<your .pem file>> allowOutOfDateCert Allow out of date certificates (required) false allowSHA1Certificates Allow SHA1 based certificates (required) false allowExtendedValidity Allow the certificates greater than validity of 398 days (required) false roleTransferForSameSubject Allow the transfer of roles to certificates with same subject false portalTagTransferForSameSubject Acquire the group tag of the matching certificate false admin Use certificate to authenticate the ISE Admin Portal false eap Use certificate for EAP protocols that use SSL/TLS tunneling false radius Use certificate for RADSec server false pxgrid Use certificate for the pxGrid Controller false ims Use certificate for the ISE Messaging Service false saml Use certificate for SAML Signing false portal Use certificate for portal false portalGroupTag Portal Group Tag for using certificate with portal role Default Portal Certificate Group allowReplacementOfPortalGroupTag Allow Replacement of Portal Group Tag (required) false allowWildCardCertificates Allow use of WildCards in certificates false validateCertificateExtensions Validate Certificate Extensions false Following Roles can be used in any combinations ROLE DEFAULT WARNING Admin False Enabling Admin role for this certificate will cause an application server restart on the selected node. Note: Make sure required Certificate Chain is imported under Trusted Certificates EAP Authentication False Only one system certificate can be used for EAP. Assigning EAP to this certificate will remove the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates RADIUS DTLS False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate will remove the assignment from another certificate. Note: Make sure required

Certificate Chain is imported under Trusted Certificates SAML False SAML cannot be used with other Usage. Enabling SAML will uncheck all other Usage. Note: Make sure required Certificate Chain is imported under Trusted Certificates .

**Args:**

**admin(boolean):** Use certificate to authenticate the ISE Admin Portal, property of the request body.

**allow\_extended\_validity(boolean):** Allow import of certificates with validity greater than 398 days (required), property of the request body.

**allow\_out\_of\_date\_cert(boolean):** Allow out of date certificates (required), property of the request body.

**allow\_replacement\_of\_certificates(boolean):** Allow Replacement of certificates (required), property of the request body.

**allow\_replacement\_of\_portal\_group\_tag(boolean):** Allow Replacement of Portal Group Tag (required), property of the request body.

**allow\_sha1\_certificates(boolean):** Allow SHA1 based certificates (required), property of the request body.

**allow\_wild\_card\_certificates(boolean):** Allow Wildcard Certificates, property of the request body.

**data(string):** Certificate Content (required), property of the request body.

**eap(boolean):** Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.

**ims(boolean):** Use certificate for the ISE Messaging Service, property of the request body.

**name(string):** Name of the certificate, property of the request body.

**password(string):** Certificate Password (required), property of the request body.

**portal(boolean):** Use for portal, property of the request body.

**portal\_group\_tag(string):** Set Group tag, property of the request body.

**portal\_tag\_transfer\_for\_same\_subject(boolean):** Allow overwriting the portal tag from matching certificate of same subject, property of the request body.

**private\_key\_data(string):** Private Key data (required), property of the request body.

**pxgrid(boolean):** Use certificate for the pxGrid Controller, property of the request body.

**radius(boolean):** Use certificate for the RADSec server, property of the request body.

**role\_transfer\_for\_same\_subject(boolean):** Allow transfer of roles for certificate with matching subject, property of the request body.

**saml(boolean):** Use certificate for SAML Signing, property of the request body.

**validate\_certificate\_extensions(boolean):** Validate Certificate Extensions, property of the request body.

**headers(dict):** Dictionary of HTTP Headers to send with the Request .

**payload(dict):** A JSON serializable Python object to send in the body of the Request.

**active\_validation(bool):** Enable/Disable payload validation. Defaults to True.

**\*\*query\_parameters:** Additional query parameters (provides support for parameters that may be added in the future).

Returns:

RestResponse: REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Raises:** `TypeError`: If the parameter types are incorrect. `MalformedRequest`: If the request body created is invalid. `ApiError`: If the Identity Services Engine cloud returns an error.

**get\_system\_certificates** (*host\_name, filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: `friendlyName` `issuedTo` `issuedBy` `validFrom` `Supported Date Format: yyyy-MM-dd HH:mm:ss` `Supported Operators: EQ, NEQ, GT and LT` `expirationDate` `Supported Date Format: yyyy-MM-dd HH:mm:ss` `Supported Operators: EQ, NEQ, GT and LT` .

#### Parameters

- **host\_name** (*basestring*) – `hostName` path parameter. Name of the host of which system certificates should be returned.
- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – `sortBy` query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – `filterType` query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_system_certificates_generator`** (*host\_name*, *filter=None*, *filter\_type=None*,  
*page=None*, *size=None*, *sort=None*, *sort\_by=None*,  
*headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: `friendlyName` `issuedTo` `issuedBy` `validFrom` `Supported Date Format: yyyy-MM-dd HH:mm:ss` `Supported Operators: EQ, NEQ, GT and LT` `expirationDate` `Supported Date Format: yyyy-MM-dd HH:mm:ss` `Supported Operators: EQ, NEQ, GT and LT` .

**Parameters**

- **`host_name`** (*basestring*) – `hostName` path parameter. Name of the host of which system certificates should be returned.
- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – `sortBy` query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “`filterType=or`” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – `filterType` query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.



- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_system_certificate_by_id`** (*host\_name, id, headers=None, \*\*query\_parameters*)

This API displays details of a System Certificate of a particular node based on a given HostName and ID.

**Parameters**

- **`host_name`** (*basestring*) – hostName path parameter. Name of the host of which system certificates should be returned.
- **`id`** (*basestring*) – id path parameter. The id of the system certificate.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_system_certificate`** (*host\_name, id, admin=None, allow\_replacement\_of\_portal\_group\_tag=None, description=None, eap=None, expiration\_ttl\_period=None, expiration\_ttl\_units=None, ims=None, name=None, portal=None, portal\_group\_tag=None, portal\_tag\_transfer\_for\_same\_subject=None, pxgrid=None, radius=None, renew\_self\_signed\_certificate=None, role\_transfer\_for\_same\_subject=None, saml=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Update a System Certificate. NOTE: Renewing a certificate will cause an application server restart on the selected node. NOTE: Request Parameters accepting True and False as input can be replaced by 1 and 0

respectively. Following Parameters are used in POST body

| PARAMETER                        | DESCRIPTION   | EXAMPLE                       |
|----------------------------------|---|-------------------------------|
| name                             | Friendly name of the certificate.                             |                               |
| System Certificate description   | Description of the Certificate                                |                               |
| admin                            | Use certificate to authenticate the ISE Admin Portal          | false                         |
| eap                              | Use certificate for EAP protocols that use SSL/TLS tunneling  | false                         |
| radius                           | Use certificate for RADSec server                             | false                         |
| pxgrid                           | Use certificate for the pxGrid Controller                     | false                         |
| ims                              | Use certificate for the ISE Messaging Service                 | false                         |
| saml                             | Use certificate for SAML Signing                              | false                         |
| portal                           | Use certificate for portal                                    | false                         |
| portalGroupTag                   | Portal Group Tag for using certificate with portal role       | Default                       |
| allowReplacementOfPortalGroupTag | Allow Replacement of Portal Group Tag (required)              | false                         |
| roleTransferForSameSubject       | Allow the transfer of roles to certificates with same subject | false                         |
| portalTagTransferForSameSubject  | Acquire the group tag of the matching certificate             | false                         |
| renewSelfSignedCertificate       | Renew Self Signed Certificate                                 | false                         |
| expirationTTLPeriod              | Expiration Period   | 365                           |
| expirationTTLUnits               | Expiration Units in one of the below formats                  | days / weeks / months / years |

days Following Roles can be used in any combinations

| ROLE          | DEFAULT |
|---------------|---------|
| WARNING Admin | False   |

Enabling Admin role for this certificate will cause an application server restart on the selected node. Note: Make sure required Certificate Chain is imported under Trusted Certificates

EAP Authentication False Only one system certificate can be used for EAP. Assigning EAP to this certificate will remove the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates

RADIUS DTLS False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate will remove the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates

SAML False SAML cannot be used with other Usage. Enabling SAML will uncheck all other Usage. Note: Make sure required Certificate Chain is imported under Trusted Certificates .

### Parameters

- **admin** (*boolean*) – Use certificate to authenticate the ISE Admin Portal, property of the request body.
- **allow\_replacement\_of\_portal\_group\_tag** (*boolean*) – Allow Replacement of Portal Group Tag (required), property of the request body.
- **description** (*string*) – Description of System Certificate, property of the request body.
- **eap** (*boolean*) – Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.
- **expiration\_ttl\_period** (*integer*) – expirationTTLPeriod, property of the request body.
- **expiration\_ttl\_units** (*string*) – expirationTTLUnits, property of the request body. Available values are 'days', 'months', 'weeks' and 'years'.
- **ims** (*boolean*) – Use certificate for the ISE Messaging Service, property of the request body.
- **name** (*string*) – Name of the certificate, property of the request body.
- **portal** (*boolean*) – Use for portal, property of the request body.
- **portal\_group\_tag** (*string*) – Set Group tag, property of the request body.
- **portal\_tag\_transfer\_for\_same\_subject** (*boolean*) – Allow overwriting the portal tag from matching certificate of same subject, property of the request body.
- **pxgrid** (*boolean*) – Use certificate for the pxGrid Controller, property of the request body.
- **radius** (*boolean*) – Use certificate for the RADSec server, property of the request body.

- **renew\_self\_signed\_certificate** (*boolean*) – Renew Self Signed Certificate, property of the request body.
- **role\_transfer\_for\_same\_subject** (*boolean*) – Allow transfer of roles for certificate with matching subject , property of the request body.
- **saml** (*boolean*) – Use certificate for SAML Signing, property of the request body.
- **id** (*basestring*) – id path parameter. The ID of the System Certificate to be updated.
- **host\_name** (*basestring*) – hostName path parameter. Name of Host whose certificate needs to be updated.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_system\_certificate\_by\_id** (*host\_name, id, headers=None, \*\*query\_parameters*)

This API deletes a System Certificate of a particular node based on a given HostName and ID.

#### Parameters

- **host\_name** (*basestring*) – hostName path parameter. Name of the host from which the System Certificate needs to be deleted.
- **id** (*basestring*) – id path parameter. The ID of the System Certificate to be deleted.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_trusted_certificates`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT status Allowed values: enabled, disabled Supported Operators: EQ, NEQ .

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_trusted\_certificates\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT status Allowed values: enabled, disabled Supported Operators: EQ, NEQ .

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**export\_trusted\_certificate** (*id*, *dirpath=None*, *save\_file=None*, *filename=None*, *headers=None*, *\*\*query\_parameters*)

The response of this API carries a trusted certificate file mapped to the requested id.

#### Parameters

- **id** (*basestring*) – id path parameter. The ID of the Trusted Certificate to be exported.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to `os.getcwd()`.
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

The `DownloadResponse` wrapper. Wraps the `urllib3.response.HTTPResponse`. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

```
import_trust_certificate (allow_basic_constraint_cafalse=None, allow_out_of_date_cert=None, allow_sha1_certificates=None,
                          data=None, description=None, name=None,
                          trust_for_certificate_based_admin_auth=None,
                          trust_for_cisco_services_auth=None, trust_for_client_auth=None,
                          trust_for_ise_auth=None, validate_certificate_extensions=None,
                          headers=None, payload=None, active_validation=True,
                          **query_parameters)
```

**Import an X509 certificate as a trust certificate. NOTE:** Request Parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following Parameters are used in POST body  
PARAMETER DESCRIPTION EXAMPLE name Friendly name of the certificate Trust Certificate description Description of the certificate Passw\*\*\* data Plain-text contents of the certificate file. Every space needs to be replaced with newline escape sequence (

) (required). awk 'NF {sub(/

/, ""); printf "%sn", \$0;}' <<your .pem file>> allowOutOfDateCert Allow out of date certificates (required) false allowSHA1Certificates Allow SHA1 based certificates (required) false trustForIseAuth Trust for authentication within ISE false trustForClientAuth Trust for client authentication and Syslog false trustForCertificateBasedAdminAuth Trust for Certificate based Admin authentication false

`trustForCiscoServicesAuth` Trust for authentication of Cisco Services `false` `validateCertificateExtensions` Validate extensions for trust certificate `false` NOTE: If name is not set, a default name of the following format will be generated: `common-name#issuer#nnnnn` where “nnnnn” is a unique number. You can always change the friendly name later by editing the certificate. You must choose how this certificate will be trusted in ISE. The objective here is to distinguish between certificates that are used for trust within an ISE deployment and public certificates that are used to trust Cisco services. Typically, you will not want to use a given certificate for both purposes. Trusted For Usage Authentication within ISE Use “`trustForIseAuth`”:true if the certificate is used for trust within ISE, such as for secure communication between ISE nodes Client authentication and Syslog Use “`trustForClientAuth`”:true if the certificate is to be used for authentication of endpoints that contact ISE over the EAP protocol. Also check this box if certificate is used to trust a Syslog server. Make sure to have `keyCertSign` bit asserted under `KeyUsage` extension for this certificate. Note: “” can be set true only if the “`trustForIseAuth`” has been set true. Certificate based admin authentication Use “`trustForCertificateBasedAdminAuth`”:true if the certificate is used for trust within ISE, such as for secure communication between ISE nodes Note: “`trustForCertificateBasedAdminAuth`” can be set true only if “`trustForIseAuth`” and “`trustForClientAuth`” are true. Authentication of Cisco Services Use “`trustForCiscoServicesAuth`”:true if the certificate is to be used for trusting external Cisco services, such as Feed Service. .

#### Args:

**`allow_basic_constraint_cafalse(boolean)`: Allow** Certificates with Basic Constraints CA Field as False (required), property of the request body.

**`allow_out_of_date_cert(boolean)`: Allow out of date** certificates (required), property of the request body.

**`allow_sha1_certificates(boolean)`: Allow SHA1 based** certificates (required), property of the request body.

**`data(string)`: Certificate content (required), property** of the request body.

**`description(string)`: Description of the certificate,** property of the request body.

**`name(string)`: Name of the certificate, property of the** request body.

**`trust_for_certificate_based_admin_auth(boolean)`: Trust** for Certificate based Admin authentication, property of the request body.

**`trust_for_cisco_services_auth(boolean)`: Trust for** authentication of Cisco Services, property of the request body.

**`trust_for_client_auth(boolean)`: Trust for client** authentication and Syslog, property of the request body.

**`trust_for_ise_auth(boolean)`: Trust for authentication** within ISE, property of the request body.

**`validate_certificate_extensions(boolean)`: Validate trust** certificate extension, property of the request body.

**`headers(dict)`: Dictionary of HTTP Headers to send with the Request** .

**`payload(dict)`: A JSON serializable Python object to send in the** body of the Request.

**`active_validation(bool)`: Enable/Disable payload validation.** Defaults to True.

**\*\*query\_parameters: Additional query parameters (provides** support for parameters that may be added in the future).

Returns:

RestResponse: REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Raises:** `TypeError`: If the parameter types are incorrect. `MalformedRequest`: If the request body created is invalid. `ApiError`: If the Identity Services Engine cloud returns an error.

**`get_trusted_certificate_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API can displays details of a Trust Certificate based on a given ID.

#### Parameters

- **`id`** (*basestring*) – id path parameter. The id of the trust certificate.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_trusted_certificate`** (*id*, *authenticate\_before\_crl\_received=None*, *automatic\_crl\_update=None*, *automatic\_crl\_update\_period=None*, *automatic\_crl\_update\_units=None*, *crl\_distribution\_url=None*, *crl\_download\_failure\_retries=None*, *crl\_download\_failure\_retries\_units=None*, *description=None*, *download\_crl=None*, *enable\_ocsp\_validation=None*, *enable\_server\_identity\_check=None*, *ignore\_crl\_expiration=None*, *name=None*, *non\_automatic\_crl\_update\_period=None*, *non\_automatic\_crl\_update\_units=None*, *reject\_if\_no\_status\_from\_ocs\_p=None*, *reject\_if\_unreachable\_from\_ocs\_p=None*, *selected\_ocsp\_service=None*, *status=None*, *trust\_for\_certificate\_based\_admin\_auth=None*, *trust\_for\_cisco\_services\_auth=None*, *trust\_for\_client\_auth=None*, *trust\_for\_ise\_auth=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)



Update a trusted certificate present in ISE trust store. Following Parameters are used in PUT request body

| PARAMETER  | DESCRIPTION  | EXAMPLE  | name  | Friendly name of the certificate(required)  | Trust  |
|--|--|--|---|---|--|
| Certificate status   | Status of the certificate  | Enabled  | description   | Description of the certificate  | Certificate for secure connection to cisco.com |
| trustForIseAuth  | Trust for authentication within ISE                              | false  | trustForClientAuth  | Trust for client authentication   | Syslog   |
| trustForCertificateBasedAdminAuth                                      | Trust for Certificate based Admin authentication                 | false  | trustForCiscoServicesAuth   | Trust for authentication of Cisco Services  | false  |
| enableOCSPValidation   | Switch to enable/disable OCSP Validation                         | false  | selectedOCSPService   | Name of selected OCSP Service   | INTERNAL_OCSP_SERVICE                          |
| rejectIfNoStatusFromOCSP   | Switch to reject certificate if there is no status from OCSP     | false  | rejectIfUnreachableFromOCSP   | Switch to reject certificate if unreachable from OCSP   | false  |
| downloadCRL  | Switch to enable/disable download of CRL                         | false  | crlDistributionUrl  | Certificate Revocation List Distribution URL  | automaticCRLUpdate                             |
| automaticCRLUpdate   | Switch to enable/disable automatic CRL update                    | false  | automaticCRLUpdatePeriod  | Automatic CRL update period   | 5  |
| automaticCRLUpdateUnits  | Unit of time for automatic CRL update                            | Minutes  | nonAutomaticCRLUpdatePeriod   | Non automatic CRL update period   | 1  |
| nonAutomaticCRLUpdateUnits   | Unit of time of non automatic CRL update                         | Hours  | crlDownloadFailureRetries   | If CRL download fails, wait time before retry   | 10   |
| crlDownloadFailureRetriesUnits   | Unit of time before retry if CRL download fails                  | Minutes  | enableServerIdentityCheck   | Switch to enable/disable verification if HTTPS or LDAP server certificate name fits the configured server URL | false  |
| authenticateBeforeCRLReceived  | Switch to enable/disable CRL Verification if CRL is not Received | false  | ignoreCRLExpiration   | Switch to enable/disable ignore CRL Expiration  | false  |
| Trusted For Usage  | Authentication within ISE  | Use "trustForIseAuth":true   | if the certificate is used for trust within ISE, such as for secure communication between ISE nodes   |   |  |
| Client authentication  | and Syslog   | Use "trustForClientAuth":true  | if the certificate is to be used for authentication of endpoints that contact ISE over the EAP protocol. Also check this box if certificate is used to trust a Syslog server. Make sure to have keyCertSign bit asserted under KeyUsage extension for this certificate. Note: "trustForClientAuth" can be set true only if the "trustForIseAuth" has been set true. |   |  |
| Certificate based admin authentication                                 | Use "trustForCertificateBasedAdminAuth":true                     | if the certificate is used for trust within ISE, such as for secure communication between ISE nodes Note: "trustForCertificateBasedAdminAuth" can be set true only if "trustForIseAuth" and "trustForClientAuth" are true.   |   |   |  |
| Authentication of Cisco Services                                       | Use "trustForCiscoServicesAuth":true                             | if the certificate is to be used for trusting external Cisco services, such as Feed Service. OCSP Configuration Usage Validation against OCSP service Use "enableOCSPValidation":true to validate the certificate against OCSP service mentioned in the field selectedOCSPService OCSP Service name Use "selectedOCSPService": "Name of OCSP Service" Name of the OCSP service against which the certificate should be validated Note: "selectedOCSPService" value will on be used if "enableOCSPValidation" has been set true. Reject the request if OCSP returns UNKNOWN status Use "rejectIfNoStatusFromOCSP":true to reject the certificate if the OCSP service returns UNKNOWN status Note: "rejectIfNoStatusFromOCSP:true" can be used only if "enableOCSPValidation" has been set true. Reject the request if OCSP Responder is unreachable Use "rejectIfUnreachableFromOCSP":true to reject the certificate if the OCSP service is unreachable. Note: "rejectIfUnreachableFromOCSP:true" can be used only if "enableOCSPValidation" has been set true.   |   |   |  |
| Certificate Revocation List Configuration Usage Validation against CRL | Use "downloadCRL":true   | to validate the certificate against CRL downloaded from URL mentioned in the field crlDistributionUrl CRL distribution url Use "crlDistributionUrl" to specify the URL from where the CRL should be downloaded Note: "crlDistributionUrl" value will only be used if "downloadCRL" has been set true. Retrieve CRL time Use "automaticCRLUpdate":true and automaticCRLUpdatePeriod, automaticCRLUpdatePeriod to set the time before which CRL is automatically retrieved prior to expiration Use "nonAutomaticCRLUpdatePeriod, nonAutomaticCRLUpdateUnits to set the time period for CRL retrieval in loop. Note: All the above fields can be used only if "downloadCRL" has been set true. If download fails Use "crlDownloadFailureRetries" and "crlDownloadFailureRetriesUnits" to set retry time period if CRL download fails Note: "crlDownloadFailureRetries" and "crlDownloadFailureRetriesUnits" can be used only if "downloadCRL" has been set true. Enable Server Identity Check Use "enableServerIdentityCheck":true to verify that HTTPS or LDAPS server certificate name fits the configured server URL Note: "enableServerIdentityCheck:true" can be used only if "downloadCRL" has been set true. Bypass CRL Verification if CRL is not Received Use "authenticateBeforeCRLReceived":true to bypass CRL Verification if CRL is not Received Note: "authenticateBeforeCRLReceived:true" can be used only if "downloadCRL" has been set true. Ignore that CRL is not yet valid or has expired Use "ignoreCRLExpiration":true to |   |   |  |

ignore if CRL is not yet valid or expired Note: “ignoreCRLExpiration:true” can be used only if “downloadCRL” has been set true. Note: boolean properties accept integers values as well, with 0 considered as false and other values being considered as true .

#### Parameters

- **authenticate\_before\_crl\_received** (*boolean*) – Switch to enable/disable CRL Verification if CRL is not Received, property of the request body.
- **automatic\_crl\_update** (*boolean*) – Switch to enable/disable automatic CRL update, property of the request body.
- **automatic\_crl\_update\_period** (*integer*) – Automatic CRL update period, property of the request body.
- **automatic\_crl\_update\_units** (*string*) – Unit of time for automatic CRL update, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **crl\_distribution\_url** (*string*) – CRL Distribution URL, property of the request body.
- **crl\_download\_failure\_retries** (*integer*) – If CRL download fails, wait time before retry, property of the request body.
- **crl\_download\_failure\_retries\_units** (*string*) – Unit of time before retry if CRL download fails, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **description** (*string*) – Description for trust certificate, property of the request body.
- **download\_crl** (*boolean*) – Switch to enable/disable download of CRL, property of the request body.
- **enable\_ocsp\_validation** (*boolean*) – Switch to enable/disable OCSP Validation, property of the request body.
- **enable\_server\_identity\_check** (*boolean*) – Switch to enable/disable verification if HTTPS or LDAP server certificate name fits the configured server URL, property of the request body.
- **ignore\_crl\_expiration** (*boolean*) – Switch to enable/disable ignore CRL Expiration, property of the request body.
- **name** (*string*) – Friendly name of the certificate, property of the request body.
- **non\_automatic\_crl\_update\_period** (*integer*) – Non automatic CRL update period, property of the request body.
- **non\_automatic\_crl\_update\_units** (*string*) – Unit of time of non automatic CRL update, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **reject\_if\_no\_status\_from\_ocs\_p** (*boolean*) – Switch to reject certificate if there is no status from OCSP, property of the request body.
- **reject\_if\_unreachable\_from\_ocs\_p** (*boolean*) – Switch to reject certificate if unreachable from OCSP, property of the request body.
- **selected\_ocsp\_service** (*string*) – Name of selected OCSP Service, property of the request body.

- **status** (*string*) – status, property of the request body. Available values are ‘Disabled’ and ‘Enabled’.
- **trust\_for\_certificate\_based\_admin\_auth** (*boolean*) – Trust for Certificate based Admin authentication, property of the request body.
- **trust\_for\_cisco\_services\_auth** (*boolean*) – Trust for authentication of Cisco Services, property of the request body.
- **trust\_for\_client\_auth** (*boolean*) – Trust for client authentication and Syslog, property of the request body.
- **trust\_for\_ise\_auth** (*boolean*) – Trust for authentication within ISE, property of the request body.
- **id** (*basestring*) – id path parameter. The id of the trust certificate.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_trusted\_certificate\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a Trust Certificate from Trusted Certificate Store based on a given ID.

### Parameters

- **id** (*basestring*) – id path parameter. The ID of the Trusted Certificate to be deleted.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## `clear_threats_and_vulnerabilities`

### **class ClearThreatsAndVulnerabilities**

Identity Services Engine ClearThreatsAndVulnerabilities API (version: 3.1.0).

Wraps the Identity Services Engine ClearThreatsAndVulnerabilities API and exposes the API as native Python methods that return native Python objects.

Clear Threats and Vulnerabilities API allows the user to delete the ThreatContext and Threat events that are associated with the given MAC Address.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Re-quired | Description                         | Example Values                               |
|---------------|--------|-----------|-------------------------------------|--|
| name          | String | Yes       | Resource Name                       |  |
| id            | String | Yes       | Resource UUID value                 |  |
| macAd-dresses | String | Yes       | One or more endpoint MAC ad-dresses | [ "00:00:00:00:00:F2", "00:00:00:00:00:F3" ] |

**`clear_threats_and_vulnerabilities`** (*mac\_addresses=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to delete the ThreatContext and Threat events that are associated with the given MAC Address.

### Parameters

- **`mac_addresses`** (*string*) – macAddresses, property of the request body.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**clear** (*mac\_addresses=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *clear\_threats\_and\_vulnerabilities*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the clear threats and vulnerabilities.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## consumer

### class Consumer

Identity Services Engine Consumer API (version: 3.1.0).

Wraps the Identity Services Engine Consumer API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**create\_account** (*node\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                  *\*\*query\_parameters*)

AccountCreate.

#### Parameters

- **node\_name** (*string*) – nodeName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*node\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for [create\\_account](#)

**activate\_account** (*description=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 AccountActivate.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**lookup\_service** (*name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 ServiceLookup.

#### Parameters

- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`access_secret`** (*peer\_node\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
AccessSecret.

**Parameters**

- **`peer_node_name`** (*string*) – peerNodeName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## **device\_administration\_authentication\_rules**

### **class DeviceAdministrationAuthenticationRules**

Identity Services Engine Device Administration - Authentication Rules API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Authentication Rules API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_authentication_rules`** (*policy\_id, headers=None, \*\*query\_parameters*)  
Device Admin Get authentication rules.

**Parameters**



- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_authentication\_rules*

**create\_device\_admin\_authentication\_rule** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Create authentication rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authentication policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

### Parameters

- **identity\_source\_name** (*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_device\_admin\_authentication\_rule*

**reset\_hit\_counts\_device\_admin\_authentication\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Reset HitCount for Authentication Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for [reset\\_hit\\_counts\\_device\\_admin\\_authentication\\_rules](#)

**get\_device\_admin\_authentication\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Get rule attributes.

#### Parameters

- **policy\_id**(*basestring*) – policyId path parameter. Policy id.
- **id**(*basestring*) – id path parameter. Rule id.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for [get\\_device\\_admin\\_authentication\\_rule\\_by\\_id](#)

**update\_device\_admin\_authentication\_rule\_by\_id**(*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update rule.

#### Parameters

- **identity\_source\_name**(*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail**(*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.

- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_authentication\_rule\_by\_id*

**delete\_device\_admin\_authentication\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete rule.

### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *`delete_device_admin_authentication_rule_by_id`*

**device\_administration\_authorization\_exception\_rules****class DeviceAdministrationAuthorizationExceptionRules**

Identity Services Engine Device Administration - Authorization Exception Rules API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Authorization Exception Rules API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_local_exception_rules`** (*policy\_id, headers=None, \*\*query\_parameters*)

Device Admin Get local exception rules.

**Parameters**

- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_device_admin_local_exception_rules`

**create\_device\_admin\_local\_exception\_rule** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Create local authorization exception rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `create_device_admin_local_exception_rule`

**reset\_hit\_counts\_device\_admin\_local\_exceptions** (*policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Reset HitCount for local exceptions.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_device\_admin\_local\_exceptions*

**get\_device\_admin\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Get local exception rule attributes.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_local\_exception\_rule\_by\_id*

**update\_device\_admin\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update local exception rule.

**Parameters**

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**update\_by\_id**(*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for [update\\_device\\_admin\\_local\\_exception\\_rule\\_by\\_id](#)

**delete\_device\_admin\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete local exception rule.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for [delete\\_device\\_admin\\_local\\_exception\\_rule\\_by\\_id](#)

## device\_administration\_authorization\_global\_exception\_rules

### class DeviceAdministrationAuthorizationGlobalExceptionRules

Identity Services Engine Device Administration - Authorization Global Exception Rules API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Authorization Global Exception Rules API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_policy\_set\_global\_exception\_rules** (*headers=None*, *\*\*query\_parameters*)

Device Admin Get global exception rules.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_policy_set_global_exception_rules`*

**`create_device_admin_policy_set_global_exception`** (*commands=None, link=None, profile=None, rule=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Create global exception authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model `ConditionReference` or dynamically built conditions which are not stored in the conditions Library, using models `ConditionAttributes`, `ConditionAndBlock`, `ConditionOrBlock` . .

**Parameters**

- **`commands`** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*commands=None, link=None, profile=None, rule=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_policy\_set\_global\_exception*

**reset\_hit\_counts\_device\_admin\_global\_exceptions** (*headers=None, \*\*query\_parameters*)

Device Admin Reset HitCount for Global Exceptions.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_device\_admin\_global\_exceptions*

**get\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id** (*id, headers=None, \*\*query\_parameters*)

Device Admin Get global exception rule attribute.

**Parameters**

- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_device_admin_policy_set_global_exception_by_rule_id`*

**`update_device_admin_policy_set_global_exception_by_rule_id`** (*id*, *com-*  
*mands=None*,  
*link=None*,  
*profile=None*,  
*rule=None*,  
*head-*  
*ers=None*, *pay-*  
*load=None*, *ac-*  
*tive\_validation=True*,  
*\*\*query\_parameters*)

Device Admin Update global exception authorization rule.

**Parameters**

- **`commands`** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id*

**`delete_device_admin_policy_set_global_exception_by_rule_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete global exception authorization rule.

**Parameters**

- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id*

## device\_administration\_authorization\_rules

### class DeviceAdministrationAuthorizationRules

Identity Services Engine Device Administration - Authorization Rules API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Authorization Rules API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Device Admin Get authorization rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_device\_admin\_authorization\_rules*

**create\_device\_admin\_authorization\_rule** (*policy\_id*, *commands=None*, *link=None*,  
*profile=None*, *rule=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Device Admin Create authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.

- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *create\_device\_admin\_authorization\_rule*

**reset\_hit\_counts\_device\_admin\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Reset HitCount for Authorization Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_device\_admin\_authorization\_rules*

**get\_device\_admin\_authorization\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Get authorization rule attributes.

**Parameters**

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_authorization\_rule\_by\_id*

**update\_device\_admin\_authorization\_rule\_by\_id**(*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update authorization rule.

**Parameters**

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.



- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_authorization\_rule\_by\_id*

**delete\_device\_admin\_authorization\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete authorization rule.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *`delete_device_admin_authorization_rule_by_id`*

## **device\_administration\_command\_set**

**class DeviceAdministrationCommandSet**

Identity Services Engine Device Administration - Command Set API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Command Set API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_command_sets`** (*headers=None, \*\*query\_parameters*)

Device Admin Return list of command sets. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_command_sets`*

## device\_administration\_conditions

### class DeviceAdministrationConditions

Identity Services Engine Device Administration - Conditions API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns list of library conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_conditions*

**create\_device\_admin\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Creates a library condition: Library Condition has hierarchical structure which define a set of condition for which authentication and authorization policy rules could be match. Condition can be compose from single dictionary attribute name and value using model LibraryConditionAttributes , or from combination of dictionary attributes with logical operation of AND/OR between them, using models: LibraryConditionAndBlock or LibraryConditionOrBlock . When using AND/OR blocks, the condition will include inner layers inside these blocks, these layers are built using the inner condition models: ConditionAttributes , ConditionAndBlock , ConditionOrBlock , that represent dynamically built Conditions which are not stored in the conditions Library, or using ConditionReference , which includes an ID to existing stored condition in the library. The LibraryCondition models can only be used in the outer-most layer (root of the condition) and must always include the condition name. When using one of

the 3 inner condition models ( ConditionAttributes, ConditionAndBlock, ConditionOrBlock ), condition name cannot be included in the request, since these will not be stored in the conditions library, and used only as inner members of the root condition. When using ConditionReference model in inner layers, the condition name is not required. ConditionReference objects can also include a reference ID to a condition of type TimeAndDate . .

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttr” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate con-dition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no spe-cific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.

- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None,
        dates_range=None, dates_range_exception=None, description=None,
        dictionary_name=None, dictionary_value=None, hours_range=None,
        hours_range_exception=None, id=None, is_negate=None, link=None, name=None, operator=None,
        week_days=None, week_days_exception=None, headers=None, payload=None,
        active_validation=True, **query_parameters)
```

Alias for *create\_device\_admin\_condition*

```
get_device_admin_conditions_for_authentication_rules (headers=None,
                                                         **query_parameters)
```

Device Admin Returns list of library conditions for authentication rules.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authentication_rules`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_conditions_for_authentication_rules`*

**`get_device_admin_conditions_for_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Device Admin Returns list of library conditions for authorization rules.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_conditions_for_authorization_rules`*

**`get_device_admin_condition_by_name`** (*name, headers=None, \*\*query\_parameters*)

Device Admin Returns a library condition.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_condition\_by\_name*

**update\_device\_admin\_condition\_by\_name** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update library condition using condition name.

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.

- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **name** – name path parameter. Condition name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_device_admin_condition_by_name`

**`delete_device_admin_condition_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

NDevice Admin Delete a library condition using condition Name.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for `delete_device_admin_condition_by_name`

**`get_device_admin_conditions_for_policy_sets`** (*headers=None*, *\*\*query\_parameters*)

Device Admin Returns list of library conditions for policy sets.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_for\_policy\_sets** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_conditions\_for\_policy\_sets*

**get\_device\_admin\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Device Admin Returns a library condition.

**Parameters**

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_condition\_by\_id*

**update\_device\_admin\_condition\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update library condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAndBlock’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘TimeAndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.

- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_condition\_by\_id*

**delete\_device\_admin\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete a library condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_device\_admin\_condition\_by\_id*

## device\_administration\_dictionary\_attributes\_list

**class DeviceAdministrationDictionaryAttributesList**

Identity Services Engine Device Administration - Dictionary Attributes List API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Dictionary Attributes List API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_dictionaries\_authentication** (*headers=None*,  
*\*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authentication.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authentication`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_dictionaries_authentication`*

**`get_device_admin_dictionaries_authorization`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authorization.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authorization`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_dictionaries_authorization`*

**`get_device_admin_dictionaries_policy_set`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for policyset.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_policy_set`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_dictionaries\_policy\_set*

## device\_administration\_identity\_stores

**class DeviceAdministrationIdentityStores**

Identity Services Engine Device Administration - Identity Stores API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Identity Stores API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_identity_stores`** (*headers=None, \*\*query\_parameters*)

Device Admin Return list of identity stores for authentication. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_identity\_stores*

## device\_administration\_network\_conditions

### class DeviceAdministrationNetworkConditions

Identity Services Engine Device Administration - Network Conditions API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Network Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_network\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns a list of network conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_network\_conditions*

**create\_device\_admin\_network\_condition** (*condition\_type=None, conditions=None, description=None, id=None, link=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device AdminCreates network condition.

#### Parameters

- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are 'DeviceCondition', 'DevicePortCondition' and 'EndstationCondition'.
- **conditions** (*list*) – conditions, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Network Condition name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create**(*condition\_type=None, conditions=None, description=None, id=None, link=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_network\_condition*

**get\_device\_admin\_network\_condition\_by\_id**(*id, headers=None, \*\*query\_parameters*)  
Device Admin Returns a network condition.

#### Parameters

- **id**(*basestring*) – id path parameter. Condition id.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_device_admin_network_condition_by_id`

`update_device_admin_network_condition_by_id(id, condition_type=None, conditions=None, description=None, link=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)`

Device Admin Update network condition.

#### Parameters

- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are ‘DeviceCondition’, ‘DevicePortCondition’ and ‘EndstationCondition’.
- **conditions** (*list*) – conditions, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Network Condition name, property of the request body.
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`update_by_id(id, condition_type=None, conditions=None, description=None, link=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)`

Alias for `update_device_admin_network_condition_by_id`

**delete\_device\_admin\_network\_condition\_by\_id** (*id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Delete network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_device\_admin\_network\_condition\_by\_id*

## device\_administration\_policy\_set

### class DeviceAdministrationPolicySet

Identity Services Engine Device Administration - Policy Set API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Policy Set API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_policy\_sets** (*headers=None*, *\*\*query\_parameters*)  
 Device Admin List of policy sets.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_policy\_sets*

**`create_device_admin_policy_set`** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Create a new policy set: Policy must include name , service identifier (either server sequence or allowed protocol) and a condition. Condition has hierarchical structure which define a set of condition for which policy could be match. Condition can be either reference to a stored Library condition, using model *ConditionReference* , or, dynamically built conditions which are not stored in the conditions Library, using models *ConditionAttributes*, *ConditionAndBlock*, *ConditionOrBlock* . .

**Parameters**

- **`condition`** (*object*) – condition, property of the request body.
- **`default`** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **`description`** (*string*) – The description for the policy set, property of the request body.
- **`hit_counts`** (*integer*) – The amount of times the policy was matched, property of the request body.
- **`id`** (*string*) – Identifier for the policy set, property of the request body.
- **`is_proxy`** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **`link`** (*object*) – link, property of the request body.
- **`name`** (*string*) – Given name for the policy set, [Valid characters are alphanumeric, underscore, hyphen, space, period, parentheses], property of the request body.
- **`rank`** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **`service_name`** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **`state`** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are 'disabled', 'enabled' and 'monitor'.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_policy\_set*

**reset\_hit\_counts\_device\_admin\_policy\_sets** (*headers=None, \*\*query\_parameters*)  
Device Admin Reset HitCount for PolicySets.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_device\_admin\_policy\_sets*

**get\_device\_admin\_policy\_set\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Device Admin Get policy set attributes.

### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_policy\_set\_by\_id*

**update\_device\_admin\_policy\_set\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update a policy set.

### Parameters

- **condition** (*object*) – condition, property of the request body.
- **default** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **description** (*string*) – The description for the policy set, property of the request body.
- **hit\_counts** (*integer*) – The amount of times the policy was matched, property of the request body.
- **id** (*basestring*) – Identifier for the policy set, property of the request body.
- **is\_proxy** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Given name for the policy set, [Valid characters are alphanumeric, underscore, hyphen, space, period, parentheses], property of the request body.

- **rank** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **service\_name** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **state** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are ‘disabled’, ‘enabled’ and ‘monitor’.
- **id** – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_policy\_set\_by\_id*

**delete\_device\_admin\_policy\_set\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete a policy set.

### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_device_admin_policy_set_by_id`*

## device\_administration\_profiles

**class DeviceAdministrationProfiles**

Identity Services Engine Device Administration - Profiles API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Profiles API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_profiles`** (*headers=None*, *\*\*query\_parameters*)

Device Admin Returns list of shell profiles. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None*, *\*\*query\_parameters*)

Alias for *`get_device_admin_profiles`*



## device\_administration\_service\_names

### class DeviceAdministrationServiceNames

Identity Services Engine Device Administration - Service Names API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Service Names API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_service\_names** (*headers=None, \*\*query\_parameters*)

Returns list of Allowed Protocols and Server Sequences for Device Admin Policy Set results. 'isLocalAuthorization' property is available only for Network Access Policy Set results of type Server Sequence. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_service\_names*

## device\_administration\_time\_date\_conditions

### class DeviceAdministrationTimeDateConditions

Identity Services Engine Device Administration - Time/Date Conditions API (version: 3.1.0).

Wraps the Identity Services Engine Device Administration - Time/Date Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_time\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns a list of time and date conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_time_conditions`*

**`create_device_admin_time_condition`** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Creates time/date condition.

### Parameters

- **`attribute_name`** (*string*) – Dictionary attribute name, property of the request body.
- **`attribute_value`** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **`children`** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **`condition_type`** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **`dates_range`** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates

Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.

- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_time\_condition*

**get\_device\_admin\_time\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Device Admin Returns a network condition.

**Parameters**

- **`id`** (*basestring*) – id path parameter. Condition id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_device\_admin\_time\_condition\_by\_id*

```

update_device_admin_time_condition_by_id (id,          attribute_name=None,      at-
                                          attribute_value=None,    children=None,
                                          condition_type=None,  dates_range=None,
                                          dates_range_exception=None,  descrip-
                                          tion=None, dictionary_name=None, dictio-
                                          nary_value=None,    hours_range=None,
                                          hours_range_exception=None,
                                          is_negate=None, link=None, name=None,
                                          operator=None,    week_days=None,
                                          week_days_exception=None,
                                          headers=None,      payload=None,
                                          active_validation=True,
                                          **query_parameters)

```

Device Admin Update network condition.

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All

Day , property of the request body.

- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_device_admin_time_condition_by_id`

**delete\_device\_admin\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Device Admin Delete Time/Date condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for `delete_device_admin_time_condition_by_id`

## downloadable\_acl

### class DownloadableAcl

Identity Services Engine DownloadableACL API (version: 3.1.0).

Wraps the Identity Services Engine DownloadableACL API and exposes the API as native Python methods that return native Python objects.

Downloadable ACL API allows the client to add, delete, update, search and perform actions on downloadable ACL.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                             | Revision Modification | Revision Modification           |
|------------|------------------|-------------------|---|-----------------------|---------------------------------|
|            |                  |                   |   | Attribute             | Description                     |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version               |                       |                                 |
| 1          | 1.1              | 2.6               | Support new attribute IP version in 2.6 | dac!Type              | Added Enum Attribute 'dac!Type' |

## Resource Definition

| Attribute   | Type   | Required | Description   | Default Values | Example Values                       |
|-------------|--------|----------|---|----------------|--------------------------------------|
| name        | String | Yes      | Resource Name. Name may contain alphanumeric or any of the following characters [_.-] |                | multiline_acl                        |
| id          | String | Yes      | Resource UUID   |                | c1e0e9e0-717f-11eb-9fb2-b6cb23d38630 |
| description | String | No       | Use the string n for a newline  |                | description                          |
| dac1        | String | Yes      | The DACL Content. Use the string n for a new-line                                     |                | permit ip any any                    |
| dac1Type    | Enum   | No       | Allowed values: IPV4, IPV6, IP_AGNOSTIC   | IPV4           |                                      |

**get\_downloadable\_acl\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a downloadable ACL by ID.

## Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_downloadable\_acl\_by\_id*

**update\_downloadable\_acl\_by\_id**(*id*, *dac1=None*, *dac1\_type=None*, *description=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a downloadable ACL.



**Parameters**

- **dacl** (*string*) – The DACL Content. Use the string `\n` for a newline, property of the request body.
- **dacl\_type** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **description** (*string*) – Use the string `\n` for a newline, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters `[_.-]`, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse***Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *dacl=None*, *dacl\_type=None*, *description=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_downloadable\_acl\_by\_id*

**delete\_downloadable\_acl\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a downloadable ACL.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_downloadable_acl_by_id`*

**`get_downloadable_acl`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all downloadable ACLs.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_downloadable_acl`*

**`get_downloadable_acl_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all downloadable ACLs.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.

- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_downloadable\_acl\_generator*

**create\_downloadable\_acl** (*dac1=None, dac1\_type=None, description=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a downloadable ACL.

### Parameters

- **dac1** (*string*) – The DACL Content. Use the string *n* for a newline, property of the request body.
- **dac1\_type** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **description** (*string*) – Use the string *n* for a newline, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [*\_.-*], property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*acl=None, acl\_type=None, description=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_downloadable\_acl*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the downloadable ACL.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## **egress\_matrix\_cell**

### **class EgressMatrixCell**

Identity Services Engine EgressMatrixCell API (version: 3.1.0).

Wraps the Identity Services Engine EgressMatrixCell API and exposes the API as native Python methods that return native Python objects.

Egress Policy Matrix Cell API allows the client to add, update, delete and search egress matrix cells among other operations.

## Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                 |
|------------|------------------|-------------------|-----------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version   |
| 1          | 1.1              | 2.3               | Introducing bulk operations |

## Resource Definition

| Attribute         | Type   | Re-<br>quired | Description                                | Default<br>Values | Example Values                             |
|-------------------|--------|---------------|--|-------------------|--|
| name              | String | Yes           | Resource Name                              |                   | ANY-ANY                                    |
| id                | String | No            | Resource UUID, mandatory for update        |                   | f92c1a900-8c01-11e6-996c-525400b48521      |
| description       | String | No            |  |                   | Default egress rule                        |
| default-Rule      | Enum   | Yes           | Allowed values: NONE, DENY_IP, PERMIT_IP   | NONE              | PERMIT_IP                                  |
| destinationSgtId  | String | Yes           |  |                   | 92bb1950-8c01-11e6-996c-525400b48521       |
| matrix-CellStatus | Enum   | Yes           | Allowed values: DISABLED, ENABLED, MONITOR | DISABLED          | ENABLED                                    |
| sgACLs            | List   | Yes           |  |                   | [["92951ac0-8c01-11e6-996c-525400b48521"]] |
| sourceSgtId       | String | Yes           |  |                   | 92bb1950-8c01-11e6-996c-525400b48521       |

**clear\_all\_matrix\_cells** (*headers=None, \*\*query\_parameters*)

This API allows the client to clear all the egress matrix cells.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**clear** (*headers=None, \*\*query\_parameters*)

Alias for *clear\_all\_matrix\_cells*

**set\_all\_cells\_status** (*status, headers=None, \*\*query\_parameters*)

his API allows the client to set status of all the egress matrix cells.

#### Parameters

- **status** (*basestring*) – status path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**set\_status** (*status, headers=None, \*\*query\_parameters*)

Alias for *set\_all\_cells\_status*

**clone\_matrix\_cell** (*dst\_sgt\_id, id, src\_sgt\_id, headers=None, \*\*query\_parameters*)

This API allows the client to clone an egress matrix cell.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **src\_sgt\_id** (*basestring*) – srcSgtId path parameter.
- **dst\_sgt\_id** (*basestring*) – dstSgtId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`clone`** (*dst\_sgt\_id, id, src\_sgt\_id, headers=None, \*\*query\_parameters*)

Alias for *clone\_matrix\_cell*

**`get_egress_matrix_cell_by_id`** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an egress matrix cell by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_egress\_matrix\_cell\_by\_id*

**`update_egress_matrix_cell_by_id`** (*id, default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to update an egress matrix cell.

**Parameters**

- **`default_rule`** (*string*) – Allowed values: NONE, DENY\_IP, PERMIT\_IP, property of the request body.
- **`description`** (*string*) – description, property of the request body.

- **destination\_sgt\_id** (*string*) – destinationSgtId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **matrix\_cell\_status** (*string*) – Allowed values: DISABLED, ENABLED, MONITOR, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgacIs** (*list*) – sgacIs, property of the request body (list of strings).
- **source\_sgt\_id** (*string*) – sourceSgtId, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *default\_rule=None*, *description=None*, *destination\_sgt\_id=None*, *matrix\_cell\_status=None*, *name=None*, *sgacIs=None*, *source\_sgt\_id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_egress\_matrix\_cell\_by\_id*

**delete\_egress\_matrix\_cell\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an egress matrix cell.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_egress\_matrix\_cell\_by\_id*

**`get_egress_matrix_cell`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the egress matrix cell. Filter: [sgtSrc-Value, matrixStatus, description, sgtSrcName, sgtDstName, sgtDstValue] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [description, sgtSrcName, sgtDstName, sgtDstValue].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_egress\_matrix\_cell*

**`get_egress_matrix_cell_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the egress matrix cell. Filter: [sgtSrcValue, matrixStatus, description, sgtSrcName, sgtDstName, sgtDstValue] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [description, sgtSrcName, sgtDstName, sgtDstValue].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_egress\_matrix\_cell\_generator*

**create\_egress\_matrix\_cell** (*default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an egress matrix cell.

**Parameters**

- **default\_rule** (*string*) – Allowed values: NONE, DENY\_IP, PERMIT\_IP, property of the request body.
- **description** (*string*) – description, property of the request body.
- **destination\_sgt\_id** (*string*) – destinationSgtId, property of the request body.
- **matrix\_cell\_status** (*string*) – Allowed values: DISABLED, ENABLED, MONITOR, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgacIs** (*list*) – sgacIs, property of the request body (list of strings).
- **source\_sgt\_id** (*string*) – sourceSgtId, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_egress\_matrix\_cell*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the egress matrix cell.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_egress\_matrix\_cell** (*operation\_type=None, source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_egress\_matrix\_cell*

**monitor\_bulk\_status\_egress\_matrix\_cell** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_egress\_matrix\_cell*

## endpoint\_certificate

### **class EndpointCertificate**

Identity Services Engine EndpointCertificate API (version: 3.1.0).

Wraps the Identity Services Engine EndpointCertificate API and exposes the API as native Python methods that return native Python objects.

Endpoint Certificate API allows the client to create endpoint certificates signed by the Cisco ISE Internal CA. This API can takes in certificate request details, create a RSA key pair, create a certificate and return the resulting key pair and certificate as a ZIP file. ZIP files are returned as an octet stream.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute          | Type   | Required | Description   | Example Values            |
|--------------------|--------|----------|---|---------------------------|
| name               | String | Yes      | Resource Name   |                           |
| id                 | String | No       | Resource UUID, mandatory for update   |                           |
| description        | String | No       |   |                           |
| certTemplateName   | String | Yes      | Name of an Internal CA template   | Certificate_Template_Name |
| format             | Enum   | Yes      | Allowed values: PKCS12, PKCS12_CHAIN, PKCS8, PKCS8_CHAIN  | PKCS8                     |
| password           | String | Yes      | Protects the private key. Must have more than 8 characters, less than 15 characters, at least one upper case letter, at least one lower case letter, at least one digit, and can only contain [A-Z][a-z][0-9]_# | Password_123              |
| certificateRequest | Map    | Yes      | Key value map. Must have CN and SAN entries   |                           |
| • CN               | String | Yes      | Matches the requester's User Name, unless the Requester is an ERS Admin. ERS Admins are allowed to create requests for any CN   | userName [or] machineName |
| • SAN              | String | Yes      | Valid MAC Address, delimited by '-'   | 11-22-33-44-55-66         |

**create\_endpoint\_certificate** (*cert\_template\_name=None, certificate\_request=None, format=None, password=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create an endpoint certificate.

#### Parameters

- **cert\_template\_name** (*string*) – Name of an Internal CA template, property of the request body.
- **certificate\_request** (*object*) – Key value map. Must have CN and SAN entries, property of the request body.
- **format** (*string*) – Allowed values: PKCS12, PKCS12\_CHAIN, PKCS8,

PKCS8\_CHAIN, property of the request body.

- **password** (*string*) – Protects the private key. Must have more than 8 characters, less than 15 characters, at least one upper case letter, at least one lower case letter, at least one digit, and can only contain [A-Z][a-z][0-9]\_#, property of the request body.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

**create** (*cert\_template\_name=None, certificate\_request=None, format=None, password=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_endpoint\_certificate*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint certificate.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*



**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**endpoint\_identity\_group****class EndpointIdentityGroup**

Identity Services Engine EndpointIdentityGroup API (version: 3.1.0).

Wraps the Identity Services Engine EndpointIdentityGroup API and exposes the API as native Python methods that return native Python objects.

Endpoint Identity Groups API allows the client to add, delete, update, and search endpoint groups.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 1.3               | Initial Cisco ISE Version |  |  |
| 1          | 1.1              | 2.4               | Added GetByName operation |  |  |

**Resource Definition**

| Attribute     | Type    | Re-quired | Description                         | Default Values | Example Values                                  |
|---------------|---------|-----------|-------------------------------------|----------------|---|
| name          | String  | Yes       | Resource Name                       |                | Cisco-Meraki-Devicee                            |
| id            | String  | No        | Resource UUID, mandatory for update |                | 1e2700a0-8c00-11e6-996c-525400b48521            |
| description   | String  | No        |                                     |                | Identity Group for Profile: Cisco-Meraki-Device |
| systemDefined | Boolean | Yes       |                                     | false          | true  |

**get\_endpoint\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an endpoint identity group by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_group\_by\_name*

**`get_endpoint_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an endpoint identity group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_group\_by\_id*

**`update_endpoint_group_by_id`** (*id*, *description=None*, *name=None*, *system\_defined=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an endpoint identity group.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **system\_defined** (*boolean*) – systemDefined, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *system\_defined=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_endpoint\_group\_by\_id*

**delete\_endpoint\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an endpoint identity group.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_endpoint_group_by_id`*

**`get_endpoint_groups`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the endpoint identity groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_endpoint\_groups*

**get\_endpoint\_groups\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoint identity groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request’s response
  - **text**(str): representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoint\_groups\_generator*

**create\_endpoint\_group** (*description=None, name=None, system\_defined=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an endpoint identity group.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **system\_defined** (*boolean*) – systemDefined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, system\_defined=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_endpoint\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint identity group.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## external\_radius\_server

### class ExternalRadiusServer

Identity Services Engine ExternalRADIUSServer API (version: 3.1.0).

Wraps the Identity Services Engine ExternalRADIUSServer API and exposes the API as native Python methods that return native Python objects.

External RADIUS Server API allows the client to add, delete, update, search and perform actions on external RADIUS server.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                              | Revision Modification | Revision Modification              |
|------------|------------------|-------------------|--|-----------------------|------------------------------------|
|            |                  |                   |  | Attribute             | Description                        |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version                |                       |                                    |
| 1          | 1.1              | 2.6               | Support new attribute Proxy Dead Timeout | proxyTime-out         | Added int Attribute 'proxyTimeout' |

### Resource Definition

| Attribute          | Type    | Required | Description   | Default Values | Example Values                       |
|--------------------|---------|----------|---|----------------|--------------------------------------|
| name               | String  | Yes      | Resource Name. Allowed characters are alphanumeric and _ (underscore).  |                | externalRadiusServer1                |
| id                 | String  | No       | Resource UUID, mandatory for update   |                | da095377-dce8-486e-933a-6ea788bbf51a |
| description        | String  | No       |   |                | example external radius server       |
| hostIP             | String  | Yes      | The IP of the host - must be a valid IPV4 address   |                | 1.1.1.1                              |
| sharedSecret       | String  | Yes      | Shared secret maximum length is 128 characters  |                | sharedSecret                         |
| enableKeyWrap      | Boolean | Yes      | KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices  |                | true                                 |
| encryptionKey      | String  | No       | The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECIMAL characters (depend on selection in field 'keyInputFormat')    |                | 1616161616161616                     |
| authenticatorKey   | String  | No       | The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECIMAL characters (depend on selection in field 'keyInputFormat') |                | 2020202020202020                     |
| keyInputFormat     | Enum    | Yes      | Specifies the format of the input for fields 'encryptionKey' and 'authenticatorKey'. Allowed Values: ASCII, HEXADECIMAL   |                | ASCII                                |
| authenticationPort | Integer | Yes      | Valid Range 1 to 65535  |                | 1812                                 |
| accountingPort     | Integer | Yes      | Valid Range 1 to 65535  |                | 1813                                 |
| timeout            | Integer | Yes      | Valid Range 1 to 120  |                | 5                                    |
| retries            | Integer | Yes      | Valid Range 1 to 9  |                | 3                                    |
| proxyTimeout       | Integer | No       | Valid Range 1 to 600  | 300            |                                      |



**get\_external\_radius\_server\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an external RADIUS server by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server\_by\_name*

**get\_external\_radius\_server\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an external RADIUS server by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server\_by\_id*

**update\_external\_radius\_server\_by\_id** (*id*, *accounting\_port=None*, *authentication\_port=None*, *authenticator\_key=None*, *description=None*, *enable\_key\_wrap=None*, *encryption\_key=None*, *host\_ip=None*, *key\_input\_format=None*, *name=None*, *proxy\_timeout=None*, *retries=None*, *shared\_secret=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an external RADIUS server.

#### Parameters

- **accounting\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authentication\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authenticator\_key** (*string*) – The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECEMIAL characters (depend on selection in field 'keyInputFormat'), property of the request body.
- **description** (*string*) – description, property of the request body.
- **enable\_key\_wrap** (*boolean*) – KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices, property of the request body.
- **encryption\_key** (*string*) – The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECEMIAL characters (depend on selection in field 'keyInputFormat'), property of the request body.
- **host\_ip** (*string*) – The IP of the host must be a valid IPV4 address, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **key\_input\_format** (*string*) – Specifies the format of the input for fields 'encryptionKey' and 'authenticatorKey'. Allowed Values: ASCII HEXADECEMIAL, property of the request body.
- **name** (*string*) – Resource Name. Allowed charactera are alphanumeric and \_ (underscore)., property of the request body.
- **proxy\_timeout** (*integer*) – Valid Range 1 to 600, property of the request body.
- **retries** (*integer*) – Valid Range 1 to 9, property of the request body.
- **shared\_secret** (*string*) – Shared secret maximum length is 128 characters, property of the request body.
- **timeout** (*integer*) – Valid Range 1 to 120, property of the request body.
- **id** – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *accounting\_port=None*, *authentication\_port=None*, *authenticator\_key=None*, *description=None*, *enable\_key\_wrap=None*, *encryption\_key=None*, *host\_ip=None*, *key\_input\_format=None*, *name=None*, *proxy\_timeout=None*, *retries=None*, *shared\_secret=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_external\_radius\_server\_by\_id*

**delete\_external\_radius\_server\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an external RADIUS server.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_external\_radius\_server\_by\_id*

**get\_external\_radius\_server** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the external RADIUS servers.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server*

**get\_external\_radius\_server\_generator** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the external RADIUS servers.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_external\_radius\_server\_generator*

**create\_external\_radius\_server** (*accounting\_port=None, authentication\_port=None, authenticator\_key=None, description=None, enable\_key\_wrap=None, encryption\_key=None, host\_ip=None, key\_input\_format=None, name=None, proxy\_timeout=None, retries=None, shared\_secret=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an external RADIUS server.

**Parameters**

- **accounting\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authentication\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authenticator\_key** (*string*) – The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECIMAL characters (depend on selection in field 'keyInputFormat'), property of the request body.
- **description** (*string*) – description, property of the request body.
- **enable\_key\_wrap** (*boolean*) – KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices, property of the request body.
- **encryption\_key** (*string*) – The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECIMAL characters (depend on selection in field 'keyInputFormat'), property of the request body.
- **host\_ip** (*string*) – The IP of the host must be a valid IPV4 address, property of the request body.
- **key\_input\_format** (*string*) – Specifies the format of the input for fields 'encryptionKey' and 'authenticatorKey'. Allowed Values: ASCII HEXADECIMAL, property of the request body.
- **name** (*string*) – Resource Name. Allowed characters are alphanumeric and \_ (underscore), property of the request body.
- **proxy\_timeout** (*integer*) – Valid Range 1 to 600, property of the request body.

- **retries** (*integer*) – Valid Range 1 to 9, property of the request body.
- **shared\_secret** (*string*) – Shared secret maximum length is 128 characters, property of the request body.
- **timeout** (*integer*) – Valid Range 1 to 120, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (accounting_port=None, authentication_port=None, authenticator_key=None, de-
description=None, enable_key_wrap=None, encryption_key=None, host_ip=None,
key_input_format=None, name=None, proxy_timeout=None, retries=None,
shared_secret=None, timeout=None, headers=None, payload=None, active_validation=True,
**query_parameters)
```

Alias for *create\_external\_radius\_server*

```
get_version (headers=None, **query_parameters)
```

This API helps to retrieve the version information related to the external RADIUS server.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## filter\_policy

### class FilterPolicy

Identity Services Engine FilterPolicy API (version: 3.1.0).

Wraps the Identity Services Engine FilterPolicy API and exposes the API as native Python methods that return native Python objects.

Filter Policy API allows clients to add, get, update and delete SXP domain filter policies.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute   | Type   | Required | Description   | Example Values |
|-------------|--------|----------|---|----------------|
| name        | String | Yes      | Resource Name   |                |
| id          | String | No       | Resource UUID, mandatory for update   |                |
| description | String | No       |   |                |
| subnet      | String | No       | Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined | subnetAddress  |
| sgt         | String | No       | SGT name or ID. At least one of subnet or sgt or vn should be defined                                       | sgt            |
| vn          | String | No       | Virtual Network. At least one of subnet or sgt or vn should be defined                                      | virtualNetwork |
| domains     | String | Yes      | List of SXP Domains, separated with comma   | Sxp Vpn Name   |

**get\_filter\_policy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a filter policy by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_filter\_policy\_by\_id*

**update\_filter\_policy\_by\_id** (*id*, *domains=None*, *sgt=None*, *subnet=None*, *vn=None*,  
*headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a filter policy.

### Parameters

- **domains** (*string*) – List of SXP Domains, separated with comma, property of the request body.
- **sgt** (*string*) – SGT name or ID. At least one of subnet or sgt or vn should be defined, property of the request body.
- **subnet** (*string*) – Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined, property of the request body.
- **vn** (*string*) – Virtual Network. At least one of subnet or sgt or vn should be defined, property of the request body.
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *domains=None*, *sgt=None*, *subnet=None*, *vn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_filter_policy_by_id`

**`delete_filter_policy_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a filter policy.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `delete_filter_policy_by_id`

**`get_filter_policy`**(*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the filter policies.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_filter\_policy*

**get\_filter\_policy\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the filter policies.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [get\\_filter\\_policy\\_generator](#)

**create\_filter\_policy** (*domains=None, sgt=None, subnet=None, vn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a filter policy.

#### Parameters

- **domains** (*string*) – List of SXP Domains, separated with comma, property of the request body.
- **sgt** (*string*) – SGT name or ID. At least one of subnet or sgt or vn should be defined, property of the request body.
- **subnet** (*string*) – Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined, property of the request body.
- **vn** (*string*) – Virtual Network. At least one of subnet or sgt or vn should be defined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*domains=None, sgt=None, subnet=None, vn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [create\\_filter\\_policy](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the filter policy.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**guest\_location****class GuestLocation**

Identity Services Engine GuestLocation API (version: 3.1.0).

Wraps the Identity Services Engine GuestLocation API and exposes the API as native Python methods that return native Python objects.

Guest Location API allows the client to search the locations configured from Cisco ISE GUI.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

**Resource Definition**

| At-tribute   | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       | name                                 |
| id           | String | No        | Resource UUID, mandatory for update | 9f083530-8c01-11e6-996c-525400b48521 |
| descrip-tion | String | No        |                                     |                                      |

**`get_guest_location_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest location by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_location\_by\_id*

**get\_guest\_location** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest locations. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_guest\_location*

**get\_guest\_location\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest locations. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_guest\_location\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest location.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## guest\_smtp\_notification\_configuration

### **class GuestSmtpNotificationConfiguration**

Identity Services Engine GuestSMTPNotificationConfiguration API (version: 3.1.0).

Wraps the Identity Services Engine GuestSMTPNotificationConfiguration API and exposes the API as native Python methods that return native Python objects.

Guest SMTP notification configuration API is a global setting for enabling email notifications within guest application. These APIs allow to create, update and retrieve the notification settings. The create API may not be required to be used as of Cisco ISE Release 2.2 because the single SMTP notification configuration is the only one used and it always gets created during the Cisco ISE application initialization period.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### **Resource Definition**



| Attribute                 | Type    | Re-<br>quired | Description   | Default<br>Values      | Example Values                       |
|---------------------------|---------|---------------|---|------------------------|--------------------------------------|
| name                      | String  | Yes           | Resource Name   |                        |                                      |
| id                        | String  | No            | Resource UUID, mandatory for update   |                        | 9ecb5340-8c01-11e6-996c-525400b48521 |
| description               | String  | No            |   |                        |                                      |
| defaultFromAddress        | String  | No            | The default from email address to be used to send emails from                             | donotreply@example.com |                                      |
| notificationEnabled       | Boolean | No            | Indicates if the email notification service is to be enabled                              | true                   |                                      |
| smtpServer                | String  | No            | The SMTP server ip address or fqdn such as outbound.mycompany.com                         |                        |                                      |
| useDefaultFromAddress     | Boolean | No            | If the default from address should be used rather than using a sponsor user email address | false                  |                                      |
| smtpPort                  | String  | No            | Port at which SMTP Secure Server is listening   | 25                     |                                      |
| connectionTimeout         | String  | No            | Interval in seconds for all the SMTP client connections                                   | 60                     |                                      |
| useTLSorSSLEncryption     | Boolean | No            | If configured to true, SMTP server authentication will happen using TLS/SSL               | false                  |                                      |
| usePasswordAuthentication | Boolean | No            | If configured to true, SMTP server authentication will happen using username/password     | false                  |                                      |
| userName                  | String  | No            | Username of Secure SMTP server  |                        |                                      |
| password                  | String  | No            | Password of Secure SMTP server  |                        |                                      |

`get_guest_smtp_notification_settings_by_id(id, headers=None, **query_parameters)`

This API allows the client to get a guest SMTP notification configuration by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_smtp\_notification\_settings\_by\_id*

**update\_guest\_smtp\_notification\_settings\_by\_id** (*id*, *connection\_timeout=None*,  
*default\_from\_address=None*,  
*notification\_enabled=None*, *password=None*, *smtp\_port=None*,  
*smtp\_server=None*,  
*use\_default\_from\_address=None*,  
*use\_password\_authentication=None*,  
*use\_tlssor\_ssl\_encryption=None*,  
*user\_name=None*, *headers=None*, *payload=None*,  
*active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a SMTP configuration setting.

#### Parameters

- **connection\_timeout** (*string*) – Interval in seconds for all the SMTP client connections, property of the request body.
- **default\_from\_address** (*string*) – The default from email address to be used to send emails from, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **notification\_enabled** (*boolean*) – Indicates if the email notification service is to be enabled, property of the request body.
- **password** (*string*) – Password of Secure SMTP server, property of the request body.
- **smtp\_port** (*string*) – Port at which SMTP Secure Server is listening, property of the request body.
- **smtp\_server** (*string*) – The SMTP server ip address or fqdn such as out-bound.mycompany.com, property of the request body.
- **use\_default\_from\_address** (*boolean*) – If the default from address should be used rather than using a sponsor user email address, property of the request body.
- **use\_password\_authentication** (*boolean*) – If configured to true, SMTP server authentication will happen using username/password, property of the request body.
- **use\_tlssor\_ssl\_encryption** (*boolean*) – If configured to true, SMTP server authentication will happen using TLS/SSL, property of the request body.
- **user\_name** (*string*) – Username of Secure SMTP server, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *connection\_timeout=None*, *default\_from\_address=None*, *notification\_enabled=None*, *password=None*, *smtp\_port=None*, *smtp\_server=None*, *use\_default\_from\_address=None*, *use\_password\_authentication=None*, *use\_tlsor\_ssl\_encryption=None*, *user\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, **\*\*query\_parameters**)

Alias for *update\_guest\_smtp\_notification\_settings\_by\_id*

**get\_guest\_smtp\_notification\_settings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, **\*\*query\_parameters**)

This API allows the client to get all the guest SMTP notification configurations. Filter: [name] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_smtp\_notification\_settings*

**get\_guest\_smtp\_notification\_settings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest SMTP notification configurations. Filter: [name] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_guest\_smtp\_notification\_settings\_generator*

**create\_guest\_smtp\_notification\_settings** (*connection\_timeout=None, default\_from\_address=None, notification\_enabled=None, password=None, smtp\_port=None, smtp\_server=None, use\_default\_from\_address=None, use\_password\_authentication=None, use\_tlsor\_ssl\_encryption=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest SMTP notification configuration.

### Parameters

- **connection\_timeout** (*string*) – Interval in seconds for all the SMTP client connections, property of the request body.
- **default\_from\_address** (*string*) – The default from email address to be used to send emails from, property of the request body.
- **notification\_enabled** (*boolean*) – Indicates if the email notification service is to be enabled, property of the request body.
- **password** (*string*) – Password of Secure SMTP server, property of the request body.
- **smtp\_port** (*string*) – Port at which SMTP Secure Server is listening, property of the request body.

- **smtp\_server** (*string*) – The SMTP server ip address or fqdn such as out-bound.mycompany.com, property of the request body.
- **use\_default\_from\_address** (*boolean*) – If the default from address should be used rather than using a sponsor user email address, property of the request body.
- **use\_password\_authentication** (*boolean*) – If configured to true, SMTP server authentication will happen using username/password, property of the request body.
- **use\_tlssr\_ssl\_encryption** (*boolean*) – If configured to true, SMTP server authentication will happen using TLS/SSL, property of the request body.
- **user\_name** (*string*) – Username of Secure SMTP server, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*connection\_timeout=None, default\_from\_address=None, notification\_enabled=None, password=None, smtp\_port=None, smtp\_server=None, use\_default\_from\_address=None, use\_password\_authentication=None, use\_tlssr\_ssl\_encryption=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_guest\_smtp\_notification\_settings*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest smtp notification configuration.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_ssid

### **class GuestSsid**

Identity Services Engine GuestSSID API (version: 3.1.0).

Wraps the Identity Services Engine GuestSSID API and exposes the API as native Python methods that return native Python objects.

Guest SSIDs are global objects that are referenced by Cisco ISE sponsor portals. Guest SSID API allows the client to add, delete, update and search guest SSID among other operations which are available from all the portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute   | Type   | Required | Description  | Example Values                       |
|-------------|--------|----------|--|--------------------------------------|
| name        | String | Yes      | Resource Name. Name may contain alphanumeric or any of the following characters [ <code>_.-</code> ] | ssid_value                           |
| id          | String | No       | Resource UUID, mandatory for update  | 9132eedc-7910-4ffe-805e-3d3a366f7fb7 |
| description | String | No       |  |                                      |

**`get_guest_ssid_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest SSID by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_ssid\_by\_id*

**update\_guest\_ssid\_by\_id** (*id*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest SSID by ID.

#### Parameters

- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [*\_*.-], property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*



**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                   *\*\*query\_parameters*)  
 Alias for *update\_guest\_ssid\_by\_id*

**delete\_guest\_ssid\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes a guest SSID by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_guest\_ssid\_by\_id*

**get\_guest\_ssid** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*,  
                   *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest SSIDs. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_guest\_ssid*

**get\_guest\_ssid\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest SSIDs. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_ssid\_generator*

**create\_guest\_ssid** (*name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates a guest SSID.

### Parameters

- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [\_.-], property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_guest\_ssid*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest SSID.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_type

### **class GuestType**

Identity Services Engine GuestType API (version: 3.1.0).

Wraps the Identity Services Engine GuestType API and exposes the API as native Python methods that return native Python objects.

Guest Type API allows the client to add, delete, update and search guest types.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute                        | Type    | Required | Description   | Default Values | Example Values  |
|----------------------------------|---------|----------|---|----------------|---|
| name                             | String  | Yes      | Resource Name   |                | Contractor (default)                                    |
| id                               | String  | No       | Resource UUID, mandatory for update                             |                | 9f03a151-8c01-11e6-996c-525400b48521                    |
| description                      | String  | No       |   |                | Default settings allow network access for up to a year. |
| accessTime                       | List    | No       |   |                |   |
| • allowAccessOnSpecificDaysTimes | Boolean | No       | Enable Specific Day Time Limits                                 | false          |   |
| • defaultDuration                | Integer | No       |   | 90             |   |
| • durationTimeUnit               | Enum    | No       | Allowed values are: - DAYS, - HOURS, - MINUTES                  | DAYS           |   |
| • fromFirstLogin                 | Boolean | No       | When Account Duration starts from first login or specified date | false          |   |
| • maxAccountDuration             | Integer | No       | Maximum value of Account Duration                               | 365            |   |
| • dayTimeLimits                  | List    | No       | List of Time Ranges for account access                          |                |   |
| • dayTimeLimit                   | List    | No       | Time Ranges for account access                                  |                |   |
| • startTime                      | String  | No       | Start time in HH:mm format                                      | 09:00          |   |
| • endTime                        | String  | No       | End time in HH:mm format  | 17:00          |   |
| • days                           | List    | No       | List of Days  |                |   |
| • day                            | Enum    | No       | Value should be one of Week day. Allowed values are: -          |                |   |
| 266                              |         |          | Sunday, - Monday, - Tuesday, - Wednesday, - Thursday, - Friday  | Chapter 1.     | The User Guide  |

**update\_guest\_type\_email** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest type email by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_email** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_type\_email*

**update\_guest\_type\_sms** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest type sms by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_sms** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                  *\*\*query\_parameters*)

Alias for *update\_guest\_type\_sms*

**get\_guest\_type\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest type by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_type\_by\_id*



```
update_guest_type_by_id(id, access_time=None, description=None, expiration_notification=None, is_default_type=None, login_options=None, name=None, sponsor_groups=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a guest type.

#### Parameters

- **access\_time** (*object*) – accessTime, property of the request body.
- **description** (*string*) – description, property of the request body.
- **expiration\_notification** (*object*) – Expiration Notification Settings, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_default\_type** (*boolean*) – isDefaultType, property of the request body.
- **login\_options** (*object*) – loginOptions, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sponsor\_groups** (*list*) – sponsorGroups, property of the request body (list of strings).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, access_time=None, description=None, expiration_notification=None, is_default_type=None, login_options=None, name=None, sponsor_groups=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_guest_type_by_id`

```
delete_guest_type_by_id(id, headers=None, **query_parameters)
```

This API deletes a guest type.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_type\_by\_id*

**get\_guest\_type** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest types. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_type*

**get\_guest\_type\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest types. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_type\_generator*

**create\_guest\_type** (*access\_time=None, description=None, expiration\_notification=None, is\_default\_type=None, login\_options=None, name=None, sponsor\_groups=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest type.

### Parameters

- **access\_time** (*object*) – accessTime, property of the request body.
- **description** (*string*) – description, property of the request body.
- **expiration\_notification** (*object*) – Expiration Notification Settings, property of the request body.
- **is\_default\_type** (*boolean*) – isDefaultType, property of the request body.
- **login\_options** (*object*) – loginOptions, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sponsor\_groups** (*list*) – sponsorGroups, property of the request body (list of strings).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*access\_time=None, description=None, expiration\_notification=None, is\_default\_type=None, login\_options=None, name=None, sponsor\_groups=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_guest\_type*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest type.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_user

### class GuestUser

Identity Services Engine GuestUser API (version: 3.1.0).

Wraps the Identity Services Engine GuestUser API and exposes the API as native Python methods that return native Python objects.

Guest User API allows the client to add, delete, update and search guest users among other operations which are available from the sponsor portal. Please note that each API description shows whether the API is supported in bulk operation. The bulk section is showing only 'create' bulk operation. However, all other operation which are bulk supported can be used in the same way.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description   |
|------------|------------------|-------------------|---|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version                           |
| 1          | 2.0              | 1.3               | Introducing new schema - not supporting 1.0 anymore |

### Resource Definition

| Attribute          | Type   | Required | Description                         | Default Values | Example Values                       |
|--------------------|--------|----------|-------------------------------------|----------------|--------------------------------------|
| name               | String | Yes      | Resource Name                       |                | guestUser                            |
| id                 | String | No       | Resource UUID, mandatory for update |                | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description        | String | No       |                                     |                | ERS Example user                     |
| customFields       | Map    | No       | Key value map                       |                | "some key" : "some value"            |
| guestType          | String | No       |                                     |                | Contractor                           |
| status             | String | No       |                                     |                |                                      |
| reasonForVisit     | String | No       |                                     |                |                                      |
| personBeingVisited | String | No       |                                     |                |                                      |
| sponsorUserName    | String | No       |                                     |                | Mr Spons                             |
| sponsorUserId      | String | No       |                                     |                |                                      |
| statusReason       | String | No       |                                     |                |                                      |
| portalId           | String | No       |                                     |                | 23423432523                          |
| guestAccessInfo    | List   | No       |                                     |                |                                      |

Continued on next page

Table 8 – continued from previous page

|                      |         |     |   |       |                    |
|----------------------|---------|-----|---|-------|--------------------|
| • validDays          | Integer | Yes | Number of days guest user is valid. To validate validDays property, Cisco ISE considers only date (not time) between fromDate and toDate properties |       | 90                 |
| • fromDate           | String  | No  |   |       | 07/29/2014 14:44   |
| • toDate             | String  | No  |   |       | 10/29/2014 17:30   |
| • location           | String  | No  |   |       | San Jose           |
| • ssid               | String  | No  |   |       |                    |
| • groupTag           | String  | No  |   |       |                    |
| GuestInfo            | List    | Yes |   |       |                    |
| • emailAddress       | String  | No  |   |       | email@some.uri.com |
| • enabled            | Boolean | Yes | This field is only for Get operation not applicable for Create, Update operations   | false |                    |
| • password           | String  | Yes |   |       | asdlkj324ew        |
| • phoneNumber        | String  | No  | Phone number should be E.164 format   |       | +13211239034       |
| • smsServiceProvider | String  | No  |   |       | Global Default     |

Continued on next page

Table 8 – continued from previous page

|                           |        |    |   |  |               |
|---------------------------|--------|----|---|--|---------------|
| •<br>userName             | String | No | If account needs be created with mobile number, please provide mobile number here |  | DS3ewdsa34wWE |
| • firstName               | String | No |   |  |               |
| • lastName                | String | No |   |  |               |
| • company                 | String | No |   |  |               |
| •<br>creationTime         | String | No |   |  |               |
| •<br>notificationLanguage | String | No |   |  |               |

**approve\_guest\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to approve a guest user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**approve\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *approve\_guest\_user\_by\_id*

**change\_sponsor\_password** (*portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to change the sponsor password.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**suspend\_guest\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to suspend a guest user by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`suspend_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`suspend_guest_user_by_name`*

**`reinstate_guest_user_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reinstate a guest user by name.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`reinstate_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`reinstate_guest_user_by_name`*

**`get_guest_user_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest user by name.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_user\_by\_name*

**`update_guest_user_by_name`** (*name*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *id=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user by name.

**Parameters**

- **`custom_fields`** (*object*) – Key value map, property of the request body.
- **`description`** (*string*) – description, property of the request body.
- **`guest_access_info`** (*object*) – `guestAccessInfo`, property of the request body.
- **`guest_info`** (*object*) – `guestInfo`, property of the request body.
- **`guest_type`** (*string*) – `guestType`, property of the request body.
- **`id`** (*string*) – `id`, property of the request body.
- **`name`** (*basestring*) – `name`, property of the request body.
- **`portal_id`** (*string*) – `portalId`, property of the request body.
- **`reason_for_visit`** (*string*) – `reasonForVisit`, property of the request body.
- **`sponsor_user_id`** (*string*) – `sponsorUserId`, property of the request body.
- **`sponsor_user_name`** (*string*) – `sponsorUserName`, property of the request body.
- **`status`** (*string*) – `status`, property of the request body.
- **`status_reason`** (*string*) – `statusReason`, property of the request body.
- **`name`** – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *id=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_by\_name*

**delete\_guest\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a guest user.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_user\_by\_name*

**reset\_guest\_user\_password\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reset the guest user password.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_password\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_guest\_user\_password\_by\_id*

**reinstate\_guest\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reinstate a guest user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reinstate\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reinstate\_guest\_user\_by\_id*

**update\_guest\_user\_email** (*id*, *portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user email by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_email** (*id*, *portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_email*

**update\_guest\_user\_sms** (*id*, *portal\_id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to update a guest user sms by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_sms`** (*id*, *portal\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_sms*

**`deny_guest_user_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deny a guest user by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deny_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *deny\_guest\_user\_by\_id*

**`get_guest_user_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest user by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_user\_by\_id*

**update\_guest\_user\_by\_id** (*id*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *name=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user by ID.

### Parameters

- **custom\_fields** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_access\_info** (*object*) – guestAccessInfo, property of the request body.
- **guest\_info** (*object*) – guestInfo, property of the request body.
- **guest\_type** (*string*) – guestType, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_id** (*string*) – portalId, property of the request body.
- **reason\_for\_visit** (*string*) – reasonForVisit, property of the request body.
- **sponsor\_user\_id** (*string*) – sponsorUserId, property of the request body.
- **sponsor\_user\_name** (*string*) – sponsorUserName, property of the request body.
- **status** (*string*) – status, property of the request body.
- **status\_reason** (*string*) – statusReason, property of the request body.



- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, custom_fields=None, description=None, guest_access_info=None,
               guest_info=None, guest_type=None, name=None, portal_id=None, reason_for_visit=None,
               sponsor_user_id=None, sponsor_user_name=None, status=None, status_reason=None,
               headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *update\_guest\_user\_by\_id*

```
delete_guest_user_by_id (id, headers=None, **query_parameters)
```

This API deletes a guest user by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_user\_by\_id*

**get\_guest\_users** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest users. Filter: [lastName, sponsor, creationTime, personBeingVisited, toDate, userName, firstName, emailAddress, phoneNumber, groupTag, name, company, guestType, status] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [firstName, lastName, emailAddress, name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_users*

**get\_guest\_users\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest users. Filter: [lastName, sponsor, creationTime, personBeingVisited, toDate, userName, firstName, emailAddress, phoneNumber, groupTag, name, company, guestType, status] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [firstName, lastName, emailAddress, name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_users\_generator*

**create\_guest\_user** (*custom\_fields=None, description=None, guest\_access\_info=None, guest\_info=None, guest\_type=None, name=None, portal\_id=None, reason\_for\_visit=None, sponsor\_user\_id=None, sponsor\_user\_name=None, status=None, status\_reason=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest user.

**Parameters**

- **custom\_fields** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_access\_info** (*object*) – guestAccessInfo, property of the request body.
- **guest\_info** (*object*) – guestInfo, property of the request body.
- **guest\_type** (*string*) – guestType, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_id** (*string*) – portalId, property of the request body.
- **reason\_for\_visit** (*string*) – reasonForVisit, property of the request body.
- **sponsor\_user\_id** (*string*) – sponsorUserId, property of the request body.
- **sponsor\_user\_name** (*string*) – sponsorUserName, property of the request body.
- **status** (*string*) – status, property of the request body.
- **status\_reason** (*string*) – statusReason, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*custom\_fields=None, description=None, guest\_access\_info=None, guest\_info=None, guest\_type=None, name=None, portal\_id=None, reason\_for\_visit=None, sponsor\_user\_id=None, sponsor\_user\_name=None, status=None, status\_reason=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_guest\_user*

**suspend\_guest\_user\_by\_id** (*id, additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to suspend a guest user by ID.

**Parameters**

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**suspend\_by\_id** (*id, additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *suspend\_guest\_user\_by\_id*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest user.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_guest\_user** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_request\_for\_guest\_user*

**monitor\_bulk\_status\_guest\_user** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_guest\_user*

## hotspot\_portal

### class HotspotPortal

Identity Services Engine HotspotPortal API (version: 3.1.0).

Wraps the Identity Services Engine HotspotPortal API and exposes the API as native Python methods that return native Python objects.

Hotspot Guest Portal API provides the ability to create, read, update, delete and search hotspot guest portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

## Resource Definition

| Attribute  | Type    | Required | Description  | Default Values  | Example Values |
|--|---------|----------|--|---|----------------|
| name   | String  | Yes      | Resource Name  | Hotspot Guest Portal (default)  |                |
| id   | String  | No       | Resource UUID, mandatory for update  | b132a9ef-1491-4e01-9ad4-b48a9c72e1c7  |                |
| description  | String  | No       | Guests do not require username and password credentials to access the network, but you can optionally require an access code |   |                |
| portalTestUrl  | String  | No       | URL to bring up a test page for this portal  | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portal=b132a9ef-1491-4e01-9ad4-b48a9c72e1c7">https://{ise-ip}:8443/portal/PortalSetup.action?portal=b132a9ef-1491-4e01-9ad4-b48a9c72e1c7</a> |                |
| portalType   | Enum    | Yes      | Allowed values: BYOD, HOTSPOTGUEST, MYDE-VICE, SELF-REGGUEST, SPONSOR, SPON-SOREDQUEST                                       | HOTSPOTGUEST  |                |
| settings   | List    | No       | Defines all of the settings groups available for a BYOD  |   |                |
| <ul style="list-style-type: none"> <li>portalSettings</li> </ul> | List    | No       | The port, interface, certificate, and other basic settings of a portal   |   |                |
| <ul style="list-style-type: none"> <li>httpsPort</li> </ul>      | Integer | Yes      | The port number that the allowed interfaces will listen on. Range from 8000 to 8999  | 8443  |                |

Continued on next page



Table 9 – continued from previous page

|                         |        |     |  |                                      |  |
|-------------------------|--------|-----|--|--------------------------------------|--|
| • allowedInterfaces     | Enum   | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 | [ “eth0”, “bond0” ]                  |  |
| • certificateGroupTag   | String | Yes | Logical name of the x.509 server certificate that will be used for the portal  | Default Portal Certificate Group     |  |
| • endpointIdentityGroup | String | Yes | Unique Id of the endpoint identity group where user’s devices will be added. Used only in Hotspot Portal                 | aa178bd0-8bff-11e6-996c-525400b48521 |  |
| • displayLang           | Enum   | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  | USEBROWSERLOCALE                     |  |
| • fallbackLanguage      | String | No  | Used when displayLang = USE-BROWSER-LOCALE   | English                              |  |
| • alwaysUsedLanguage    | String | No  | Used when displayLang = ALWAYSUSE  | English                              |  |
| • coaType               | Enum   | No  | Allowed Values: COAREAUTHENTICATE, COATERMINATE  | COAREAUTHENTICATE                    |  |
| • aupSettings           | List   | No  | Configuration of the Acceptable Use Policy (AUP) for a portal  |                                      |  |

Continued on next page

Table 9 – continued from previous page

|                           |         |    |   |                 |  |
|---------------------------|---------|----|---|-----------------|--|
| • requireAccessCode       | Boolean | No | Require the portal user to enter an access code. Only used in Hotspot portal  | false           |  |
| • accessCode              | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true)                            |                 |  |
| • includeAup              | Boolean | No | Require the portal user to read and accept an AUP   | true            |  |
| • requireScrolling        | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true                      | false           |  |
| • authSuccessSettings     | List    | No |   |                 |  |
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   | www.cisco.com   |  |
| • postLoginBannerSettings | List    | No |   |                 |  |

Continued on next page

Table 9 – continued from previous page

|                              |         |    |   |       |  |
|------------------------------|---------|----|---|-------|--|
| •<br>includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |  |
| •<br>supportInfoSettings     | List    | No | Portal Support Information Settings   |       |  |
| •<br>includeSupportInfoPage  | Boolean | No | false   |       |  |
| •<br>includeMacAddr          | Boolean | No | false   |       |  |
| •<br>includeIpAddress        | Boolean | No | false   |       |  |
| •<br>includeBrowserUserAgent | Boolean | No | false   |       |  |
| •<br>includePolicyServer     | Boolean | No | false   |       |  |
| •<br>includeFailureCode      | Boolean | No | false   |       |  |
| •<br>emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. Allowed values: HIDE, DISPLAY-WITHNO-VALUE, DISPLAYWITH-DEFAULT-VALUE | HIDE  |  |

Continued on next page

Table 9 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  | 9eb421c0-8c01-11e6-996c-525400b48521     |  |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   | Default Blue theme                       |  |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  | Base 64 encoded string of Theme CSS file |  |

Continued on next page

Table 9 – continued from previous page

|                         |        |    |   |         |  |
|-------------------------|--------|----|---|---------|--|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |         |  |
| • bannerColor           | String | No | Hex value of color  | #0000FF |  |
| • bannerTextColor       | String | No | Banner Text color code from GUI   |         |  |
| • pageBackgroundColor   | String | No | Color code from GUI   |         |  |
| • pageLabelAndTextColor | String | No | Label and Text color from GUI   |         |  |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |         |  |
| • viewLanguage          | String | No | English   |         |  |

Continued on next page

Table 9 – continued from previous page

|                        |        |    |   |                                |  |
|------------------------|--------|----|---|--------------------------------|--|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |                                |  |
| • bannerTitle          | String | No | BYOD Portal   |                                |  |
| • contactText          | String | No | Contact Support   |                                |  |
| • footerElement        | String | No | Footer Element  |                                |  |
| • mobileLogoImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • desktopLogoImage     | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • bannerImage          | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • backgroundImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |

Continued on next page

Table 9 – continued from previous page

|                      |        |     |   |  |  |
|----------------------|--------|-----|---|--|--|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |  |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |  |
| • key                | String | Yes | ui_contact_ip_address_label                                   |  |  |
| • value              | String | Yes | SVAgYWRkcmVzczo=  |  |  |

**get\_hotspot\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a hotspot portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_hotspot\_portal\_by\_id*

**update\_hotspot\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a hotspot portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_hotspot\_portal\_by\_id*

**delete\_hotspot\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a hotspot portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_hotspot\_portal\_by\_id*

**`get_hotspot_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the hotspot portals. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_hotspot\_portal*

**`get_hotspot_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the hotspot portals. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_hotspot\_portal\_generator*

**create\_hotspot\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a hotspot portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_hotspot\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the hotspot portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## ip\_to\_sgt\_mapping

### **class** IpToSgtMapping

Identity Services Engine IPToSGTMapping API (version: 3.1.0).

Wraps the Identity Services Engine IPToSGTMapping API and exposes the API as native Python methods that return native Python objects.

IP To SGT Mapping API allows the client to add, delete, update, search and deploy IP to SGT mapping.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute     | Type   | Required  | Description                         | Example Values    |
|---------------|--------|---|-------------------------------------|-------------------|
| name          | String | Yes   | Resource Name                       | server1.cisco.com |
| id            | String | No  | Resource UUID, mandatory for update |                   |
| description   | String | No  |                                     |                   |
| deployTo      | String | Mandatory unless mappingGroup is set or unless deployType=ALL |                                     | network_device_id |
| deploy-Type   | Enum   | Yes   | Allowed values: ALL, ND, NDG        | ND                |
| host-Name     | String | Mandatory if hostIp is empty                                  |                                     | server1.cisco.com |
| sgt           | String | Mandatory unless mappingGroup is set                          |                                     | sgt_id            |
| hostIp        | String | Mandatory if hostName is empty – valid IPL                    |                                     |                   |
| mapping-Group | String | Mandatory unless sgt and deployTo and deployType are set      |                                     |                   |

**deploy\_ip\_to\_sgt\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy an IP to SGT mapping by ID. Only one Deploy process can run at any given time.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**deploy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *deploy\_ip\_to\_sgt\_mapping\_by\_id*

**deploy\_all\_ip\_to\_sgt\_mapping** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy all the IP to SGT mappings. Only one Deploy process can run at any given time.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**deploy\_all** (*headers=None*, *\*\*query\_parameters*)

Alias for *deploy\_all\_ip\_to\_sgt\_mapping*

**get\_deploy\_status\_ip\_to\_sgt\_mapping** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to get the IP to SGT mapping deployment status. Deploy Status will show last Deploy command output. The information will be saved until the next Deploy command.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_deploy\_status** (*headers=None, \*\*query\_parameters*)

Alias for *get\_deploy\_status\_ip\_to\_sgt\_mapping*

**get\_ip\_to\_sgt\_mapping\_by\_id** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an IP to SGT mapping by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_by\_id*

**update\_ip\_to\_sgt\_mapping\_by\_id** (*id, deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to update an IP to SGT mapping by ID.

**Parameters**

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deployType=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **host\_ip** (*string*) – Mandatory if hostName is empty -valid IP, property of the request body.

- **host\_name** (*string*) – Mandatory if hostIp is empty, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **mapping\_group** (*string*) – Mapping Group Id. Mandatory unless sgt and deployTo and deployType are set, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *deploy\_to=None*, *deploy\_type=None*, *host\_ip=None*, *host\_name=None*, *mapping\_group=None*, *name=None*, *sgt=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_ip\_to\_sgt\_mapping\_by\_id*

**delete\_ip\_to\_sgt\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an IP to SGT mapping.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_ip_to_sgt_mapping_by_id`*

**`get_ip_to_sgt_mapping`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the IP to SGT mappings. Filter: [hostName, groupName, ip, sgtName] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [hostName, groupName, ip, sgtName].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_ip\_to\_sgt\_mapping*

**`get_ip_to_sgt_mapping_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the IP to SGT mappings. Filter: [hostName, groupName, ip, sgtName] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [hostName, groupName, ip, sgtName].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_generator*

**create\_ip\_to\_sgt\_mapping** (*deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an IP to SGT mapping.

#### Parameters

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deployType=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **host\_ip** (*string*) – Mandatory if hostName is empty -valid IP, property of the request body.
- **host\_name** (*string*) – Mandatory if hostIp is empty, property of the request body.
- **mapping\_group** (*string*) – Mapping Group Id. Mandatory unless sgt and deployTo and deployType are set, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_ip\_to\_sgt\_mapping*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to IP to SGT mapping.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_ip\_to\_sgt\_mapping** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – operationType, property of the request body.
- **`resource_media_type`** (*string*) – resourceMediaType, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_ip\_to\_sgt\_mapping*

**monitor\_bulk\_status\_ip\_to\_sgt\_mapping** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_ip\_to\_sgt\_mapping*

## ip\_to\_sgt\_mapping\_group

### class IpToSgtMappingGroup

Identity Services Engine IPToSGTMappingGroup API (version: 3.1.0).

Wraps the Identity Services Engine IPToSGTMappingGroup API and exposes the API as native Python methods that return native Python objects.

IP To SGT Mapping Group API allows the client to add, delete, update, search and deploy IP to SGT mapping groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required  | Description                         | Default Values | Example Values    |
|-------------|--------|---|-------------------------------------|----------------|-------------------|
| name        | String | Yes   | Resource Name                       |                | groupA            |
| id          | String | No  | Resource UUID, mandatory for update |                |                   |
| description | String | No  |                                     |                |                   |
| deployTo    | String | Mandatory unless mappingGroup is set or unless deployType=ALL |                                     |                | network_device_id |
| deployType  | Enum   | Yes   | Allowed values: ALL, ND, NDG        | ALL            |                   |
| sgt         | String | Mandatory unless mappingGroup is set                          |                                     |                | sgt_id            |

**deploy\_ip\_to\_sgt\_mapping\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy an IP to SGT mapping group by ID. Only one Deploy process can run at any given time.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deploy_all_ip_to_sgt_mapping_group`** (*headers=None, \*\*query\_parameters*)

This API allows the client to deploy all the IP to SGT mapping groups. Only one Deploy process can run at any given time.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_deploy_status_ip_to_sgt_mapping_group`** (*headers=None, \*\*query\_parameters*)

This API allows the client to get the IP to SGT mapping group deployment status. Deploy Status will show last Deploy command output. The information will be saved until the next Deploy command.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_ip_to_sgt_mapping_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an IP to SGT mapping group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_ip_to_sgt_mapping_group_by_id`

**`update_ip_to_sgt_mapping_group_by_id`** (*id*, *deploy\_to=None*, *deploy\_type=None*,  
*name=None*, *sgt=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update an IP to SGT mapping group by ID.

**Parameters**

- **`deploy_to`** (*string*) – Mandatory unless `mappingGroup` is set or unless `deployType=ALL`, property of the request body.
- **`deploy_type`** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.



- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *deploy\_to=None*, *deploy\_type=None*, *name=None*, *sgt=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_ip\_to\_sgt\_mapping\_group\_by\_id*

**delete\_ip\_to\_sgt\_mapping\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes an IP to SGT mapping group.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_ip\_to\_sgt\_mapping\_group\_by\_id*

**get\_ip\_to\_sgt\_mapping\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
*sortasc=None*, *sortdsc=None*, *headers=None*,  
*\*\*query\_parameters*)

This API allows the client to get all the IP to SGT mapping groups. Filter: [name, sgt-Name] To search guest users by using toDate column, follow the format: DD- MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, sgtName].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_ip\_to\_sgt\_mapping\_group*

**get\_ip\_to\_sgt\_mapping\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the IP to SGT mapping groups. Filter: [name, sgt-Name] To search guest users by using toDate column, follow the format: DD- MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, sgtName].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_group\_generator*

**create\_ip\_to\_sgt\_mapping\_group** (*deploy\_to=None, deploy\_type=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an IP to SGT mapping group.

#### Parameters

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deployType=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*deploy\_to=None, deploy\_type=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_ip\_to\_sgt\_mapping\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the IP to SGT mapping group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_ip\_to\_sgt\_mapping\_group** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_ip\_to\_sgt\_mapping\_group*

**monitor\_bulk\_status\_ip\_to\_sgt\_mapping\_group** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_ip\_to\_sgt\_mapping\_group*

## identity\_groups

### class IdentityGroups

Identity Services Engine IdentityGroups API (version: 3.1.0).

Wraps the Identity Services Engine IdentityGroups API and exposes the API as native Python methods that return native Python objects.

Identity Groups API allows the client to search identity groups.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                           |
|------------|------------------|-------------------|---------------------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version             |
| 1          | 1.1              | 2.4               | Added Create and GetByName operations |

## Resource Definition

| Attribute   | Type   | Required | Description                         | Example Values                                    |
|-------------|--------|----------|-------------------------------------|---|
| name        | String | Yes      | Resource Name                       | GuestType_Weekly (default)                        |
| id          | String | No       | Resource UUID, mandatory for update | 9efe2310-8c01-11e6-996c-525400b48521              |
| description | String | No       |                                     | Identity group mirroring the guest type           |
| parent      | String | Yes      |                                     | NAC Group:NAC:IdentityGroups:User Identity Groups |

**get\_identity\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity group by name.

### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_group\_by\_name*

**get\_identity\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity group by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_group\_by\_id*

**update\_identity\_group\_by\_id** (*id*, *description=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an identity group.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.



- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id, description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *update\_identity\_group\_by\_id*

**get\_identity\_groups** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity groups. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_identity_groups`

**`get_identity_groups_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity groups. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *`get_identity_groups_generator`*

**`create_identity_group`** (*description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 This API creates an identity group.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`parent`** (*string*) – parent, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`create`** (*description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *`create_identity_group`*

**`get_version`** (*headers=None, \*\*query\_parameters*)  
 This API helps to retrieve the version information related to identity group.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**identity\_sequence****class IdentitySequence**

Identity Services Engine IdentitySequence API (version: 3.1.0).

Wraps the Identity Services Engine IdentitySequence API and exposes the API as native Python methods that return native Python objects.

Identity Sequence API allows the client to add, delete, update and search Identity sequences.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |
| 1          | 1.1              | 2.4               | Added GetByName operation |

**Resource Definition**

| Attribute                        | Type    | Re-<br>quired | Description   | Example Values   |
|----------------------------------|---------|---------------|---|--|
| name                             | String  | Yes           | Resource Name   | All_User_ID_Stores   |
| id                               | String  | No            | Resource UUID, mandatory for update   | 93246270-8c01-11e6-996c-525400b48521   |
| description                      | String  | No            |   | A built-in Identity Sequence to include all User Identity Stores   |
| breakOn-StoreFail                | Boolean | Yes           | Do not access other stores in the sequence If a selected identity store cannot be accessed for authentication | false  |
| certificateAuthenticationProfile | String  | Yes           | Certificate Authentication Profile, empty if doesn't exist  | Preloaded_Certificate_Profile  |
| idSeqItem                        | List    | Yes           | List of id stores comprised of id store name and order  | [ { "idstore": "Internal Users", "order": 1 }, { "idstore": "All_AD_Join_Points", "order": 2 }, { "idstore": "Guest Users", "order": 3 } ] |

**get\_identity\_sequence\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity sequence by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_sequence\_by\_name*

**get\_identity\_sequence\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity sequence by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_sequence\_by\_id*

**update\_identity\_sequence\_by\_id** (*id*, *break\_on\_store\_fail=None*, *certificate\_authentication\_profile=None*, *description=None*, *id\_seq\_item=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an identity sequence. Partial update is not supported.

### Parameters

- **break\_on\_store\_fail** (*boolean*) – breakOnStoreFail, property of the request body.
- **certificate\_authentication\_profile** (*string*) – certificateAuthenticationProfile, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **id\_seq\_item** (*list*) – idSeqItem, property of the request body (list of objects).
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *break\_on\_store\_fail=None*, *certificate\_authentication\_profile=None*, *description=None*, *id\_seq\_item=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, **\*\*query\_parameters**)

Alias for *update\_identity\_sequence\_by\_id*

**delete\_identity\_sequence\_by\_id** (*id*, *headers=None*, **\*\*query\_parameters**)

This API deletes an identity sequence.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, **\*\*query\_parameters**)

Alias for *delete\_identity\_sequence\_by\_id*

**get\_identity\_sequence** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_identity\_sequence*

**get\_identity\_sequence\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response



**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_identity\_sequence\_generator*

**create\_identity\_sequence** (*break\_on\_store\_fail=None, certificate\_authentication\_profile=None, description=None, id\_seq\_item=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an identity sequence.

**Parameters**

- **break\_on\_store\_fail** (*boolean*) – breakOnStoreFail, property of the request body.
- **certificate\_authentication\_profile** (*string*) – certificateAuthenticationProfile, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id\_seq\_item** (*list*) – idSeqItem, property of the request body (list of objects).
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*break\_on\_store\_fail=None, certificate\_authentication\_profile=None, description=None, id\_seq\_item=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for [create\\_identity\\_sequence](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the identity sequence.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## internal\_user

### class InternalUser

Identity Services Engine InternalUser API (version: 3.1.0).

Wraps the Identity Services Engine InternalUser API and exposes the API as native Python methods that return native Python objects.

Internal User API allows the client to add, delete, update and search internal users.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                              | Revision Modification | Revision Modification              |
|------------|------------------|-------------------|--|-----------------------|------------------------------------|
|            |                  |                   |  | Attribute             | Description                        |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version                |                       |                                    |
| 1          | 1.1              | 2.6               | Support new attribute Proxy Dead Timeout | proxyTime-out         | Added int Attribute 'proxyTimeout' |

## Resource Definition

| Attribute          | Type    | Required | Description   | Default Values | Example Values                       |
|--------------------|---------|----------|---|----------------|--------------------------------------|
| name               | String  | Yes      | Resource Name   |                | name                                 |
| id                 | String  | No       | Resource UUID, mandatory for update   |                | b24b09e2-16f8-4e48-ace1-2c262a9449f1 |
| description        | String  | No       |   |                | description                          |
| changePassword     | Boolean | Yes      |   | true           |                                      |
| email              | String  | No       |   |                | email@domain.com                     |
| enablePassword     | String  | No       | EnablePassword field is added in ISE 2.0 to support T+  |                | enablePassword                       |
| enabled            | Boolean | Yes      | Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSObjectURL]?filter=enabled.EQ.Enabled' |                | true                                 |
| custom-Attributes  | String  | No       | Key value map   |                | { "key1" : "value1" }                |
| firstName          | String  | No       |   |                | firstName                            |
| identity-Groups    | String  | No       | CSV of identity group IDs   |                | identity-Groups                      |
| lastName           | String  | No       |   |                | lastName                             |
| password           | String  | No       |   |                | password                             |
| passwordID-Store   | String  | Yes      | The id store where the internal user's password is kept   | Internal Users |                                      |
| expiry-DateEnabled | Boolean | No       |   | false          |                                      |
| expiry-Date        | String  | No       | To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD'   |                | 2021-05-19                           |

**get\_internal\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an internal user by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_by\_name*

**update\_internal\_user\_by\_name** (*name*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *id=None*, *identity\_groups=None*, *last\_name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an internal user by name.

#### Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSOb jectURL]?filter=enabled.EQ.Enabled', property of the request body.
- **expiry\_date** (*string*) – To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD', property of the request body.

- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **id** (*string*) – id, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user’s password is kept, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *id=None*, *identity\_groups=None*, *last\_name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_internal\_user\_by\_name*

**delete\_internal\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes an internal user by name.

### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_internal\_user\_by\_name*

**get\_internal\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an internal user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_by\_id*

```
update_internal_user_by_id(id, change_password=None, custom_attributes=None, description=None, email=None, enable_password=None, enabled=None, expiry_date=None, expiry_date_enabled=None, first_name=None, identity_groups=None, last_name=None, name=None, password=None, password_idstore=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update an internal user by ID.

#### Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSObjectURL]?filter=enabled.EQ.Enabled', property of the request body.
- **expiry\_date** (*string*) – To store the internal user's expiry date information. It's format is 'YYYY-MM-DD', property of the request body.
- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user's password is kept, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *identity\_groups=None*, *last\_name=None*, *name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_internal\_user\_by\_id*

**delete\_internal\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an internal user by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_internal\_user\_by\_id*

**get\_internal\_user** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the internal users. Filter: [firstName, lastName, identityGroup, name, description, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].



## Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user*

**get\_internal\_user\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the internal users. Filter: [firstName, lastName, identityGroup, name, description, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_generator*

**create\_internal\_user** (*change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *identity\_groups=None*, *last\_name=None*, *name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates an internal user.

### Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSObjectURL]?filter=enabled.EQ.Enabled', property of the request body.
- **expiry\_date** (*string*) – To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD', property of the request body.
- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user's password is kept, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (change_password=None, custom_attributes=None, description=None, email=None, enable_password=None, enabled=None, expiry_date=None, expiry_date_enabled=None, first_name=None, identity_groups=None, last_name=None, name=None, password=None, password_idstore=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `create_internal_user`

```
get_version (headers=None, **query_parameters)
```

This API helps to retrieve the version information related to the internal user.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## mdm

### **class** Mdm

Identity Services Engine MDM API (version: 3.1.0).

Wraps the Identity Services Engine MDM API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pwg*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_endpoints** (*headers=None, \*\*query\_parameters*)  
getEndpoints.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)  
Alias for *get\_endpoints*

**get\_endpoint\_by\_mac\_address** (*headers=None, \*\*query\_parameters*)  
getEndpointByMacAddress.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_endpoints\_by\_type** (*headers=None, \*\*query\_parameters*)  
getEndpointsByType.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_endpoints\_by\_os\_type** (*headers=None, \*\*query\_parameters*)  
getEndpointsByOsType.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## misc

**class Misc**

Identity Services Engine Misc API (version: 3.1.0).

Wraps the Identity Services Engine Misc API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 MNT REST APIs

## License [Cisco Sample Code License](https://developer.cisco.com/site/license/cisco-sample-code-license/)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_mnt*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_active\_count** (*headers=None, \*\*query\_parameters*)

ActiveCount.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_active\_list** (*headers=None, \*\*query\_parameters*)

ActiveList.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_auth\_list** (*headers=None, \*\*query\_parameters*)  
Session/AuthList.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_posture\_count** (*headers=None, \*\*query\_parameters*)  
PostureCount.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_profiler_count`** (*headers=None, \*\*query\_parameters*)  
ProfilerCount.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_mac`** (*mac, headers=None, \*\*query\_parameters*)  
Sessions by MAC.

**Parameters**

- **`mac`** (*basestring*) – mac path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_username`** (*username*, *headers=None*, *\*\*query\_parameters*)  
Sessions by Username.

**Parameters**

- **`username`** (*basestring*) – username path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_nas_ip`** (*nas\_ipv4*, *headers=None*, *\*\*query\_parameters*)  
Sessions by NAS IP.

**Parameters**

- **`nas_ipv4`** (*basestring*) – nas\_ipv4 path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_endpoint_ip`** (*endpoint\_ip**v4*, *headers=None*, *\*\*query\_parameters*)  
Sessions by Endpoint IP.

**Parameters**

- **`endpoint_ip`***v4* (*basestring*) – *endpoint\_ip**v4* path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_session_id`** (*session\_id*, *headers=None*, *\*\*query\_parameters*)  
Sessions by SessionID.

**Parameters**

- **`session_id`** (*basestring*) – *session\_id* path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_all_sessions`** (*headers=None, \*\*query\_parameters*)

Delete All Sessions.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_mnt_version`** (*headers=None, \*\*query\_parameters*)

MNT Version.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_failure_reasons`** (*headers=None, \*\*query\_parameters*)  
FailureReasons.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_authentication_status_by_mac`** (*mac, records, seconds, headers=None, \*\*query\_parameters*)

AuthenticationStatus by MAC.

**Parameters**

- **`mac`** (*basestring*) – MAC path parameter.
- **`seconds`** (*basestring*) – SECONDS path parameter.
- **`records`** (*basestring*) – RECORDS path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).



- **psn\_name** (*basestring*) – PSN\_NAME path parameter.
- **mac** (*basestring*) – MAC path parameter.
- **disconnect\_type** (*basestring*) – DISCONNECT\_TYPE path parameter.
- **nas\_ipv4** (*basestring*) – NAS\_IPV4 path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_account\_status\_by\_mac** (*duration, mac, headers=None, \*\*query\_parameters*)  
AccountStatus by MAC.

#### Parameters

- **mac** (*basestring*) – mac path parameter.
- **duration** (*basestring*) – duration path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

## my\_device\_portal

### class MyDevicePortal

Identity Services Engine MyDevicePortal API (version: 3.1.0).

Wraps the Identity Services Engine MyDevicePortal API and exposes the API as native Python methods that return native Python objects.

My Device Portal API provides the ability to create, read, update, delete and search my device portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Required | Description                                 | Default Values | Example Values   |
|---------------|--------|----------|---|----------------|--|
| name          | String | Yes      | Resource Name                               |                | My Devices Portal (default)  |
| id            | String | No       | Resource UUID, mandatory for update         |                | 901f1b37-4a2f-46d9-8653-d925d2dde3aa   |
| description   | String | No       |   |                | Default portal used by employees to register and manage their personal devices   |
| portalTestUrl | String | No       | URL to bring up a test page for this portal |                | <a href="https://{ise-ip}:8443/mydevicesportal/PortalSetup">https://{ise-ip}:8443/mydevicesportal/PortalSetup</a><br>4a2f-46d9-8653-d925d2dde3aa |

Continued on next page



Table 10 – continued from previous page

|                         |         |     |  |          |                                      |
|-------------------------|---------|-----|--|----------|--------------------------------------|
| portalType              | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELF-REGGUEST, SPONSOR, SPONSORED, GUEST                                   | MYDEVICE |                                      |
| settings                | List    | No  | Defines all of the settings groups available for a Mydevice portal   |          |                                      |
| • portalSettings        | List    | No  | The port, interface, certificate, and other basic settings of a portal   |          |                                      |
| • httpsPort             | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                                      |          | 8443                                 |
| • allowedInterfaces     | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 |          | [ “eth0”, “bond0” ]                  |
| • certificateGroupTag   | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  |          | Default Portal Certificate Group     |
| • endpointIdentityGroup | String  | Yes | Unique Id of the endpoint identity group where user’s devices will be added. Used only in Hotspot Portal                 |          | aa178bd0-8bff-11e6-996c-525400b48521 |

Continued on next page

Table 10 – continued from previous page

|                                    |         |    |  |        |                  |
|------------------------------------|---------|----|--|--------|------------------|
| • displayLang                      | Enum    | No | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  |        | USEBROWSERLOCALE |
| • fallbackLanguage                 | String  | No | Used when displayLang = USE-BROWSER-LOCALE   |        | English          |
| • alwaysUsedLanguage               | String  | No | Used when displayLang = ALWAYSUSE  |        | English          |
| • loginPageSettings                | List    | No | Portal Login Page settings groups follow   |        |                  |
| • maxFailedAttemptsBeforeRateLimit | Integer | No | Maximum failed login attempts before rate limiting   | 5      |                  |
| • timeBetweenLoginsDuringRateLimit | Integer | No |  | 2      |                  |
| • includeAup                       | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login   | false  |                  |
| • aupDisplay                       | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK - ONPAGE, - ASLINK | ASLINK |                  |
| • requireAupAcceptance             | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true   | false  |                  |

Continued on next page

Table 10 – continued from previous page

|                                  |         |    |  |            |  |
|----------------------------------|---------|----|--|------------|--|
| • requireScrolling               | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • aupSettings                    | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| • displayFrequency               | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| • includeAup                     | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| • requireScrolling               | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • displayFrequencyIntervalDays   | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |
| • employeeChangePasswordSettings | List    | No |  |            |  |
| • allowEmployeeToChangePwd       | Boolean | No | Allow employees to change their own passwords  | false      |  |

Continued on next page

Table 10 – continued from previous page

|                              |         |    |   |       |      |
|------------------------------|---------|----|---|-------|------|
| •<br>postLoginBannerSettings | List    | No |   |       |      |
| •<br>includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |      |
| •<br>supportInfoSettings     | List    | No | Portal Support Information Settings                                     |       |      |
| •<br>includeSupportInfoPage  | Boolean | No |   | false |      |
| •<br>includeMacAddr          | Boolean | No |   | false |      |
| •<br>includeIpAddress        | Boolean | No |   | false |      |
| •<br>includeBrowserUserAgent | Boolean | No |   | false |      |
| •<br>includePolicyServer     | Boolean | No |   | false |      |
| •<br>includeFailureCode      | Boolean | No |   | false |      |
| •<br>emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |       | HIDE |

Continued on next page

Table 10 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 10 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 10 – continued from previous page

|                           |        |    |   |  |                                |
|---------------------------|--------|----|---|--|--------------------------------|
| •<br>globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| •<br>bannerTitle          | String | No |   |  | My Devices Portal              |
| •<br>contactText          | String | No |   |  | Contact Support                |
| •<br>footerElement        | String | No |   |  | Footer Element                 |
| •<br>mobileLogoImage      | Image  | No |   |  |                                |
| • data                    | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| •<br>desktopLogoImage     | Image  | No |   |  |                                |
| • data                    | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| •<br>bannerImage          | Image  | No |   |  |                                |
| • data                    | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| •<br>backgroundImage      | Image  | No |   |  |                                |
| • data                    | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 10 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_my\_device\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a my device portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_my\_device\_portal\_by\_id*

**update\_my\_device\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a my device portal by ID.

#### Parameters



- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a Mydevice portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_my\_device\_portal\_by\_id*

**delete\_my\_device\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a my device portal by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_my_device_portal_by_id`*

**`get_my_device_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the my device portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_my\_device\_portal*

**`get_my_device_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the my device portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_my\_device\_portal\_generator*

**create\_my\_device\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a my device portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a Mydevice portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_my\_device\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the my device portal.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## native\_suppliant\_profile

**class NativeSupplicantProfile**

Identity Services Engine NativeSupplicantProfile API (version: 3.1.0).

Wraps the Identity Services Engine NativeSupplicantProfile API and exposes the API as native Python methods that return native Python objects.

Native supplicant profile API provides the ability to update, delete and search native supplicant profiles.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute               | Type   | Required | Description  | Example Values   |
|-------------------------|--------|----------|--|--|
| name                    | String | Yes      | Resource Name  | Cisco-ISE-NSP  |
| id                      | String | No       | Resource UUID, mandatory for update  | b8ce01e6-b150-4d4e-9698-40e48d5e0197   |
| description             | String | No       |  | Pre-configured Native Supplicant Profile. The SSID Will Need To Be Customized For Your Environment |
| wirelessProfiles        | List   | Yes      | List of Wireless profiles  |  |
| • ssid                  | String | Yes      | SSID for the wireless profile  | ISE  |
| • allowedProtocol       | Enum   | Yes      | Allowed protocol for the wireless profile.                                     | TLS  |
| • certificateTemplateId | String | No       | Certificate template ID  | 0ca8f1b6-500d-560b-e053-75189a0ab0d1   |
| • actionType            | Enum   | Yes      | Action type for WifiProfile.   | UPDATE   |
| • previousSsid          | String | Yes      | Previous ssid for WifiProfile (required for updating existing WirelessProfile) | ssid1  |

**get\_native\_suppliant\_profile\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a native supplicant profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_native\_suppllicant\_profile\_by\_id*

**`update_native_suppllicant_profile_by_id`** (*id*, *description=None*, *name=None*, *wireless\_profiles=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a native suppllicant profile.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`wireless_profiles`** (*list*) – wirelessProfiles, property of the request body (list of objects).
- **`id`** – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *wireless\_profiles=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_native\_suppllicant\_profile\_by\_id*

**delete\_native\_suppllicant\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a native suppllicant profile.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_native\_suppllicant\_profile\_by\_id*

**get\_native\_suppllicant\_profile** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the native suppllicant profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_native_suppllicant_profile`*

**`get_native_suppllicant_profile_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the native suppllicant profiles.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_native_suppllicant_profile_generator`*

**`get_version`** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the native suppllicant profile.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## network\_access\_authentication\_rules

```
class NetworkAccessAuthenticationRules
```

Identity Services Engine Network Access - Authentication Rules API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Authentication Rules API and exposes the API as native Python methods that return native Python objects.

```
get_network_access_authentication_rules(policy_id, headers=None,
                                       **query_parameters)
```

Network Access Get authentication rules.

## Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authentication\_rules*

**create\_network\_access\_authentication\_rule** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Create authentication rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authentication policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **identity\_source\_name** (*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_network\_access\_authentication\_rule*

**reset\_hit\_counts\_network\_access\_authentication\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for Authentication Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_network\_access\_authentication\_rules*

**get\_network\_access\_authentication\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get rule attributes.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_network_access_authentication_rule_by_id`

**`update_network_access_authentication_rule_by_id`** (*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update rule.

**Parameters**

- **`identity_source_name`** (*string*) – Identity source name from the identity stores, property of the request body.
- **`if_auth_fail`** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **`if_process_fail`** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **`if_user_not_found`** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **`link`** (*object*) – link, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *`update_network_access_authentication_rule_by_id`*

**`delete_network_access_authentication_rule_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete rule.

**Parameters**

- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_authentication_rule_by_id`*

## network\_access\_authorization\_exception\_rules

### class NetworkAccessAuthorizationExceptionRules

Identity Services Engine Network Access - Authorization Exception Rules API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Authorization Exception Rules API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_local\_exception\_rules** (*policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Network Access Get local exception rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_local\_exception\_rules*

**create\_network\_access\_local\_exception\_rule** (*policy\_id*, *link=None*, *profile=None*,  
*file=None*, *rule=None*, *security\_group=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Network Access Create local authorization exception rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).

- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_network\_access\_local\_exception\_rule*

**reset\_hit\_counts\_network\_access\_local\_exceptions** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for local exceptions.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response



**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_network\_access\_local\_exceptions*

**get\_network\_access\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get local exception rule attributes.

**Parameters**

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_local\_exception\_rule\_by\_id*

**update\_network\_access\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update local exception rule.

**Parameters**

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).

- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_network\_access\_local\_exception\_rule\_by\_id*

**delete\_network\_access\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete local exception rule.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *`delete_network_access_local_exception_rule_by_id`*

## **`network_access_authorization_global_exception_rules`**

**`class NetworkAccessAuthorizationGlobalExceptionRules`**

Identity Services Engine Network Access - Authorization Global Exception Rules API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Authorization Global Exception Rules API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_policy_set_global_exception_rules`** (*headers=None, \*\*query\_parameters*)

Network Access Get global exception rules.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_network_access_policy_set_global_exception_rules`*

```
create_network_access_policy_set_global_exception_rule (link=None, profile=None, rule=None, security_group=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Network Access Create global exception authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (link=None, profile=None, rule=None, security_group=None, headers=None, payload=None, active_validation=True, **query_parameters)  
Alias for create_network_access_policy_set_global_exception_rule
```

```
reset_hit_counts_network_access_global_exceptions (headers=None, **query_parameters)
```

Network Access Reset HitCount for Global Exceptions.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)

Alias for *reset\_hit\_counts\_network\_access\_global\_exceptions*

**get\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Network Access Get global exception rule attributes.

**Parameters**

- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_by_id(id, headers=None, **query_parameters)
```

Alias for `get_network_access_policy_set_global_exception_rule_by_id`

```
update_network_access_policy_set_global_exception_rule_by_id(id,
                                                             link=None,
                                                             profile=None,
                                                             rule=None,
                                                             secu-
                                                             rity_group=None,
                                                             head-
                                                             ers=None,
                                                             pay-
                                                             load=None,
                                                             ac-
                                                             tive_validation=True,
                                                             **query_parameters)
```

Network Access Update global exception authorization rule.

#### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id*

**delete\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete global exception authorization rule.

#### Parameters

- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id*

## network\_access\_authorization\_rules

### class NetworkAccessAuthorizationRules

Identity Services Engine Network Access - Authorization Rules API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Authorization Rules API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get authorization rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authorization\_rules*

**`create_network_access_authorization_rule`** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Create authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model `ConditionReference` or dynamically built conditions which are not stored in the conditions Library, using models `ConditionAttributes`, `ConditionAndBlock`, `ConditionOrBlock` . .

### Parameters

- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`security_group`** (*string*) – Security group used in authorization policies, property of the request body.
- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`create`** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *create\_network\_access\_authorization\_rule*

**`reset_hit_counts_network_access_authorization_rules`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for Authorization Rules.

**Parameters**

- **`policy_id`** (*basestring*) – `policyId` path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`reset_hit_counts_by_id`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *reset\_hit\_counts\_network\_access\_authorization\_rules*

**`get_network_access_authorization_rule_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get authorization rule attributes.

**Parameters**

- **`policy_id`** (*basestring*) – `policyId` path parameter. Policy id.
- **`id`** (*basestring*) – `id` path parameter. Rule id.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authorization\_rule\_by\_id*

**update\_network\_access\_authorization\_rule\_by\_id** (*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update authorization rule.

#### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_network\_access\_authorization\_rule\_by\_id*

**`delete_network_access_authorization_rule_by_id`**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete authorization rule.

#### Parameters

- **`policy_id`** (*basestring*) – `policyId` path parameter. Policy id.
- **`id`** (*basestring*) – `id` path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_authorization\_rule\_by\_id*

## network\_access\_conditions

### class NetworkAccessConditions

Identity Services Engine Network Access - Conditions API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_conditions** (*headers=None, \*\*query\_parameters*)

Network Access Returns all library conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_conditions*

**create\_network\_access\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates a library condition: Library Condition has hierarchical structure which define a set of condition for which authentication and authorization policy rules could be match. Condition can be compose from single dictionary attribute name and value using model LibraryConditionAttributes , or from combination of dictionary attributes with logical operation of AND/OR between them, using models: LibraryConditionAndBlock or LibraryConditionOrBlock . When using AND/OR blocks, the condition will include inner layers inside these blocks, these layers are built using the inner condition models: ConditionAttributes , ConditionAndBlock , ConditionOrBlock , that represent dynamically built Conditions which are not stored in the conditions Library, or using ConditionReference , which includes an ID to existing stored condition in the library. The LibraryCondition models can only be used in the

outer-most layer (root of the condition) and must always include the condition name. When using one of the 3 inner condition models ( ConditionAttributes, ConditionAndBlock, ConditionOrBlock ), condition name cannot be included in the request, since these will not be stored in the conditions library, and used only as inner members of the root condition. When using ConditionReference model in inner layers, the condition name is not required. ConditionReference objects can also include a reference ID to a condition of type TimeAndDate . .

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttr” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.

- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, id=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *create\_network\_access\_condition*

```
get_network_access_conditions_for_authentication_rules (headers=None, **query_parameters)
```

Network Access Returns list of library conditions for Authentication rules scope.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_network_access_conditions_for_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of library conditions for Authorization rules scope.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_network_access_condition_by_name`** (*name, headers=None, \*\*query\_parameters*)

Network Access Returns a library condition.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_condition\_by\_name*

**`update_network_access_condition_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update library condition using condition name.

### Parameters

- **`attribute_name`** (*string*) – Dictionary attribute name, property of the request body.
- **`attribute_value`** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **`children`** (*list*) – In case type is `andBlock` or `orBlock` additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **`condition_type`** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **`dates_range`** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for



start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.

- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **name** – name path parameter. Condition name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *`update_network_access_condition_by_name`*

**`delete_network_access_condition_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete a library condition using condition Name.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_condition_by_name`*

**`get_network_access_conditions_for_policy_sets`** (*headers=None*, *\*\*query\_parameters*)

Network Access Returns list of library conditions for PolicySet scope.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_for\_policy\_sets** (*headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_conditions\_for\_policy\_sets*

**get\_network\_access\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Network Access Returns a library condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_condition\_by\_id*

```
update_network_access_condition_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Network Access Update library condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggreation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*basestring*) – id, property of the request body.

- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

## Return type *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_network_access_condition_by_id`

```
delete_network_access_condition_by_id(id, headers=None, **query_parameters)
```

Network Access Delete a library condition.

**Parameters**

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_condition\_by\_id*

**network\_access\_dictionary****class NetworkAccessDictionary**

Identity Services Engine Network Access - Dictionary API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Dictionary API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionaries** (*headers=None*, *\*\*query\_parameters*)  
Get all Dictionaries.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries*

**create\_network\_access\_dictionaries** (*description=None, dictionary\_attr\_type=None, id=None, link=None, name=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Create a new Dictionary.

Parameters

- **description** (*string*) – The description of the Dictionary, property of the request body.
- **dictionary\_attr\_type** (*string*) – The dictionary attribute type, property of the request body. Available values are ‘ENTITY\_ATTR’, ‘MSG\_ATTR’ and ‘PIP\_ATTR’.
- **id** (*string*) – Identifier for the dictionary, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – The dictionary name, property of the request body.
- **version** (*string*) – The dictionary version, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, dictionary\_attr\_type=None, id=None, link=None, name=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_access\_dictionaries*

**get\_network\_access\_dictionary\_by\_name** (*name, headers=None, \*\*query\_parameters*)  
GET a dictionary by name.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name, headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_dictionary\_by\_name*

**update\_network\_access\_dictionary\_by\_name** (*name, description=None, dictionary\_attr\_type=None, id=None, link=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Update a Dictionary.

#### Parameters

- **description** (*string*) – The description of the Dictionary, property of the request body.
- **dictionary\_attr\_type** (*string*) – The dictionary attribute type, property of the request body. Available values are 'ENTITY\_ATTR', 'MSG\_ATTR' and 'PIP\_ATTR'.
- **id** (*string*) – Identifier for the dictionary, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – The dictionary name, property of the request body.
- **version** (*string*) – The dictionary version, property of the request body.
- **name** – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *description=None*, *dictionary\_attr\_type=None*, *id=None*, *link=None*, *version=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_dictionary\_by\_name*

**delete\_network\_access\_dictionary\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete a Dictionary.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_dictionary\_by\_name*

## network\_access\_dictionary\_attribute

### class NetworkAccessDictionaryAttribute

Identity Services Engine Network Access - Dictionary Attribute API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Dictionary Attribute API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionary\_attributes\_by\_dictionary\_name** (*dictionary\_name*,  
*headers=None*,  
*\*\*query\_parameters*)

Returns a list of Dictionary Attributes for an existing Dictionary.

#### Parameters

- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*dictionary\_name*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_network\_access\_dictionary\_attributes\_by\_dictionary\_name*

**create\_network\_access\_dictionary\_attribute** (*dictionary\_name*, *allowed\_values=None*, *data\_type=None*,  
*description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *name=None*,  
*headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Create a new Dictionary Attribute for an existing Dictionary.

## Parameters

- **allowed\_values** (*list*) – all of the allowed values for the dictionary attribute, property of the request body (list of objects).
- **data\_type** (*string*) – the data type for the dictionary attribute, property of the request body. Available values are 'BOOLEAN', 'DATE', 'FLOAT', 'INT', 'IP', 'IPV4', 'IPV6', 'IPV6INTERFACE', 'IPV6PREFIX', 'LONG', 'OCTET\_STRING', 'STRING', 'UINT64' and 'UNIT32'.
- **description** (*string*) – The description of the Dictionary attribute, property of the request body.
- **dictionary\_name** (*basestring*) – the name of the dictionary which the dictionary attribute belongs to, property of the request body.
- **direction\_type** (*string*) – the direction for the useage of the dictionary attribute, property of the request body. Available values are 'BOTH', 'IN', 'NONE' and 'OUT'.
- **id** (*string*) – Identifier for the dictionary attribute, property of the request body.
- **internal\_name** (*string*) – the internal name of the dictionary attribute, property of the request body.
- **name** (*string*) – The dictionary attribute's name, property of the request body.
- **dictionary\_name** – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*dictionary\_name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *create\_network\_access\_dictionary\_attribute*

**get\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*, *name*, *headers=None*, *\*\*query\_parameters*)

Get a Dictionary Attribute.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary attribute name.
- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*dictionary\_name*, *name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_dictionary\_attribute\_by\_name*

**update\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*, *name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Update a Dictionary Attribute.

#### Parameters

- **allowed\_values** (*list*) – all of the allowed values for the dictionary attribute, property of the request body (list of objects).
- **data\_type** (*string*) – the data type for the dictionary attribute, property of the request body. Available values are 'BOOLEAN', 'DATE', 'FLOAT', 'INT', 'IP', 'IPV4', 'IPV6', 'IPV6INTERFACE', 'IPV6PREFIX', 'LONG', 'OCTET\_STRING', 'STRING', 'UINT64' and 'UNIT32'.
- **description** (*string*) – The description of the Dictionary attribute, property of the request body.

- **dictionary\_name** (*basestring*) – the name of the dictionary which the dictionary attribute belongs to, property of the request body.
- **direction\_type** (*string*) – the direction for the usage of the dictionary attribute, property of the request body. Available values are 'BOTH', 'IN', 'NONE' and 'OUT'.
- **id** (*string*) – Identifier for the dictionary attribute, property of the request body.
- **internal\_name** (*string*) – the internal name of the dictionary attribute, property of the request body.
- **name** (*basestring*) – The dictionary attribute's name, property of the request body.
- **name** – name path parameter. the dictionary attribute name.
- **dictionary\_name** – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*dictionary\_name*, *name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_dictionary\_attribute\_by\_name*

**delete\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*, *name*, *headers=None*, *\*\*query\_parameters*)

Delete a Dictionary Attribute.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary attribute name.
- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*dictionary\_name, name, headers=None, \*\*query\_parameters*)

Alias for *delete\_network\_access\_dictionary\_attribute\_by\_name*

## **network\_access\_dictionary\_attributes\_list**

### **class NetworkAccessDictionaryAttributesList**

Identity Services Engine Network Access - Dictionary Attributes List API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Dictionary Attributes List API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionaries\_authentication** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authentication.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_authentication** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries\_authentication*

**get\_network\_access\_dictionaries\_authorization** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authorization.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_authorization** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries\_authorization*

**get\_network\_access\_dictionaries\_policy\_set** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for policysset.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_policy\_set** (*headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_dictionaries\_policy\_set*

**network\_access\_identity\_stores****class NetworkAccessIdentityStores**

Identity Services Engine Network Access - Identity Stores API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Identity Stores API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_identity\_stores** (*headers=None, \*\*query\_parameters*)  
Network Access Return list of identity stores for authentication policy definition. (Other CRUD APIs available through ERS).

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_identity\_stores*



## network\_access\_network\_conditions

### class NetworkAccessNetworkConditions

Identity Services Engine Network Access - Network Conditions API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Network Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_network\_conditions** (*headers=None, \*\*query\_parameters*)

Network Access Returns a list of network conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_network\_conditions*

**create\_network\_access\_network\_condition** (*condition\_type=None, conditions=None, description=None, id=None, link=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates network condition.

#### Parameters

- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are 'DeviceCondition', 'DevicePortCondition' and 'EndstationCondition'.
- **conditions** (*list*) – conditions, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Network Condition name, property of the request body.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*condition\_type=None, conditions=None, description=None, id=None, link=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_access\_network\_condition*

**get\_network\_access\_network\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Network Access Returns a network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for [get\\_network\\_access\\_network\\_condition\\_by\\_id](#)

**update\_network\_access\_network\_condition\_by\_id** (*id*, *condition\_type=None*, *conditions=None*, *description=None*, *link=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update network condition.

#### Parameters

- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are ‘DeviceCondition’, ‘DevicePortCondition’ and ‘EndstationCondition’.
- **conditions** (*list*) – conditions, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Network Condition name, property of the request body.
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *condition\_type=None*, *conditions=None*, *description=None*, *link=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for [update\\_network\\_access\\_network\\_condition\\_by\\_id](#)

```
delete_network_access_network_condition_by_id (id, headers=None,  
                                                **query_parameters)
```

Network Access Delete network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
delete_by_id (id, headers=None, **query_parameters)  
Alias for delete_network_access_network_condition_by_id
```

## network\_access\_policy\_set

### **class NetworkAccessPolicySet**

Identity Services Engine Network Access - Policy Set API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Policy Set API and exposes the API as native Python methods that return native Python objects.

```
get_network_access_policy_sets (headers=None, **query_parameters)  
Get all network access policy sets.
```

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_policy\_sets*

**`create_network_access_policy_set`** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Create a new policy set: Policy must include name , service identifier (either server sequence or allowed protocol) and a condition. Condition has hierarchical structure which define a set of condition for which policy could be match. Condition can be either reference to a stored Library condition, using model *ConditionReference* , or, dynamically built conditions which are not stored in the conditions Library, using models *ConditionAttributes*, *ConditionAndBlock*, *ConditionOrBlock* . .

**Parameters**

- **`condition`** (*object*) – condition, property of the request body.
- **`default`** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **`description`** (*string*) – The description for the policy set, property of the request body.
- **`hit_counts`** (*integer*) – The amount of times the policy was matched, property of the request body.
- **`id`** (*string*) – Identifier for the policy set, property of the request body.
- **`is_proxy`** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **`link`** (*object*) – link, property of the request body.
- **`name`** (*string*) – Given name for the policy set, [Valid characters are alphanumerics, underscore, hyphen, space, period, parentheses], property of the request body.
- **`rank`** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **`service_name`** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **`state`** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are 'disabled', 'enabled' and 'monitor'.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.

- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_access\_policy\_set*

**reset\_hit\_counts\_network\_access\_policy\_sets** (*headers=None, \*\*query\_parameters*)  
Network Access Reset HitCount for PolicySets.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_network\_access\_policy\_sets*

**get\_network\_access\_policy\_set\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get policy set attributes.

#### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_policy\_set\_by\_id*

**update\_network\_access\_policy\_set\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update a policy set.

#### Parameters

- **condition** (*object*) – condition, property of the request body.
- **default** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **description** (*string*) – The description for the policy set, property of the request body.
- **hit\_counts** (*integer*) – The amount of times the policy was matched, property of the request body.
- **id** (*basestring*) – Identifier for the policy set, property of the request body.
- **is\_proxy** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **link** (*object*) – link, property of the request body.

- **name** (*string*) – Given name for the policy set, [Valid characters are alphanumeric, underscore, hyphen, space, period, parentheses], property of the request body.
- **rank** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **service\_name** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **state** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are ‘disabled’, ‘enabled’ and ‘monitor’.
- **id** – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, condition=None, default=None, description=None, hit_counts=None,
             is_proxy=None, link=None, name=None, rank=None, service_name=None,
             state=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_network\_access\_policy\_set\_by\_id*

```
delete_network_access_policy_set_by_id(id, headers=None, **query_parameters)
```

Network Access Delete a policy set.

### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_policy_set_by_id`*

## network\_access\_profiles

### **class NetworkAccessProfiles**

Identity Services Engine Network Access - Profiles API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Profiles API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_profiles`** (*headers=None*, *\*\*query\_parameters*)

Network Access Returns list of authorization profiles. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of `MyDict` objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_access_profiles`*

## network\_access\_security\_groups

### class NetworkAccessSecurityGroups

Identity Services Engine Network Access - Security Groups API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Security Groups API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_security\_groups** (*headers=None, \*\*query\_parameters*)

Network Access Return list of available security groups for authorization policy definition. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_security\_groups*

## network\_access\_service\_names

### class NetworkAccessServiceNames

Identity Services Engine Network Access - Service Names API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Service Names API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_service\_names** (*headers=None, \*\*query\_parameters*)

Returns list of Allowed Protocols and Server Sequences for Network Access Policy Set results. 'isLocalAuthorization' property is available only for Network Access Policy Set results of type Server Sequence. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_service\_names*

**network\_access\_time\_date\_conditions****class NetworkAccessTimeDateConditions**

Identity Services Engine Network Access - Time/Date Conditions API (version: 3.1.0).

Wraps the Identity Services Engine Network Access - Time/Date Conditions API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_time_conditions`** (*headers=None, \*\*query\_parameters*)  
Network Access Returns a list of time and date conditions.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_time\_conditions*

**create\_network\_access\_time\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates time/date condition.

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.

- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, id=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *create\_network\_access\_time\_condition*

**get\_network\_access\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access returns a network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_time\_condition\_by\_id*

**update\_network\_access\_time\_condition\_by\_id** (*id*, *attribute\_name=None*,  
*attribute\_value=None*,  
*children=None*, *condition\_type=None*, *dates\_range=None*,  
*dates\_range\_exception=None*,  
*description=None*, *dictionary\_name=None*, *dictionary\_value=None*,  
*hours\_range=None*, *hours\_range\_exception=None*,  
*is\_negate=None*, *link=None*,  
*name=None*, *operator=None*, *week\_days=None*,  
*week\_days\_exception=None*,  
*headers=None*, *payload=None*,  
*active\_validation=True*,  
*\*\*query\_parameters*)

Network Access Update network condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.

- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggreation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate con-dition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no spe-cific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of

the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').

- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_time\_condition\_by\_id*

**delete\_network\_access\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete Time/Date condition.

### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response



- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_time_condition_by_id`*

## **network\_device**

### **class NetworkDevice**

Identity Services Engine NetworkDevice API (version: 3.1.0).

Wraps the Identity Services Engine NetworkDevice API and exposes the API as native Python methods that return native Python objects.

Network Device API allows the client to add, delete, update, and search network devices. Please note that each API description shows whether the API is supported in bulk operation. The bulk section is showing only 'create' bulk operation however, all other operation which are bulk supported can be used in same way.

### **Revision History**

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Ver-<br>sion | Description   | Revision Modifi-<br>cation                           | Revision Modification   |
|-------------------------|-------------------------------|------------------------------|---|--|---|
|                         |                               |                              |   | Attribute  | Description   |
| 0                       | 1.0                           | 1.2                          | Initial Cisco ISE Version   |  |   |
| 1                       | 1.1                           | 2.0                          | Cisco ISE 2.0 model changes for TACACS+ and 3rd-Party support                 | tacacsSet-<br>tings:sharedSecret                     | Added Attribute 'shared-Secret' for Tacacs+ sup-<br>port                      |
|                         |                               |                              |   | tacacsSet-<br>tings:connectModeOptions               | Added Attribute 'con-<br>nectModeOptions' for<br>Tacacs+ support              |
|                         |                               |                              |   | profileName  | Added Attribute 'profile-<br>Name' for 3rd-Party sup-<br>port support         |
|                         |                               |                              |   | coaPort  | Added Attribute 'coaPort'<br>for 3rd-Party support sup-<br>port               |
| 2                       | 1.2                           | 2.4                          | Cisco ISE 2.4 model changes for Multi shared secret and DTLS Required support | authenticationset-<br>tings:enableMultiSecret        | Added Attribute 'enable-<br>MultiSecret' for multiple<br>shared secret        |
|                         |                               |                              |   | authenticationset-<br>tings:secondRadiusSharedSecret | Added Attribute 'secon-<br>dRadiusSharedSecret' for<br>multiple shared secret |
|                         |                               |                              |   | authenticationset-<br>tings:dtlsRequired             | Added Attribute 'dtlsRe-<br>quired' for dtls settings                         |

### Resource Definition

| Attribute              | Type    | Required | Description                                 | Default Values | Example Val-<br>ues                              |
|------------------------|---------|----------|---|----------------|--|
| name                   | String  | Yes      | Resource<br>Name                            |                | ISE_EST_Local_Host                               |
| id                     | String  | No       | Resource<br>UUID, manda-<br>tory for update |                | 79aac430-<br>7cc8-<br>11eb-ad58-<br>005056926583 |
| description            | String  | No       |   |                | example nd                                       |
| authenticationSettings | Boolean | Yes      |   |                | false  |
| • enableKeyWrap        | Boolean | Yes      |   | false          |  |
| • enabled              | Boolean | Yes      |   | false          |  |

Continued on next page

Table 11 – continued from previous page

|                               |         |     |  |        |                      |
|-------------------------------|---------|-----|--|--------|----------------------|
| • keyEncryptionKey            | String  | Yes |  |        | 1234567890123456     |
| • keyInputFormat              | Enum    | Yes | Allowed values: ASCII, HEXADECI-MAL  | ASCII  |                      |
| • messageAuthenticatorCodeKey | String  | No  |  |        | 12345678901234567890 |
| • networkProtocol             | Enum    | No  | Allowed values: RADIUS, TACACS_PLUS  | RADIUS |                      |
| • radiusSharedSecret          | String  | No  |  |        | VHEGKOCUHYB          |
| • enableMultiSecret           | Boolean | No  |  |        | false                |
| • secondRadiusSharedSecret    | String  | No  |  |        |                      |
| • dtlsRequired                | Boolean | No  | This value enforces use of dtls  | false  |                      |
| coaPort                       | Integer | Yes | Since 2.0 (for 3rd party)  |        | 0                    |
| dtlsDnsName                   | String  | No  | This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate |        | ISE213.il.com        |
| NetworkDeviceIPList           | String  | Yes | List of IP Subnets for this node   |        |                      |
| • ipaddress                   | String  | Yes | It can be either single IP address or IP range address   |        | 127.0.0.1            |

Continued on next page

Table 11 – continued from previous page

|                                 |         |     |   |      |  |
|---------------------------------|---------|-----|---|------|--|
| •<br>getIpAddressExclude        | String  | Yes | It can be either single IP address or IP range address      |      |  |
| • mask                          | Integer | Yes |   |      | 32   |
| NetworkDeviceGroupList          | List    | No  | List of Network Device Group names for this node            |      | [ “Location#All Locations”, “Device Type#All Device Types” ] |
| modelName                       | String  | No  |   |      |  |
| softwareVersion                 | String  | No  |   |      |  |
| profileName                     | String  | Yes | Since 2.0 (for 3rd party)                                   | true | Cisco  |
| snmpsettings                    | List    | Yes |   |      |  |
| • linkTrapQuery                 | Boolean | Yes | SNMP link Trap Query  | true |  |
| • macTrapQuery                  | Boolean | Yes | SNMP MAC Trap Query   | true |  |
| • originatingPolicyServicesNode | String  | Yes | Originating Policy Services Node                            | Auto |  |
| • pollingInterval               | Integer | Yes | SNMP Polling Interval in seconds (Valid Range 600 to 86400) | 3600 |  |
| • roCommunity                   | String  | No  | SNMP RO Community   |      | aaa  |
| • version                       | Enum    | No  | Allowed values: ONE, TWO_C, THREE                           |      | ONE  |
| tacacsSettings                  | List    | Yes | Since 2.0 (for Tacacs+)                                     |      |  |
| • connectModeOptions            | Enum    | No  | Allowed values: OFF, ON_LEGACY, ON_DRAFT_COMPLIANT          |      | ON_LEGACY  |

Continued on next page

Table 11 – continued from previous page

|   |         |     |           |       |                 |
|---|---------|-----|-----------|-------|-----------------|
| •<br>sharedSecret                                 | String  | Yes | Since 2.0 |       | aaa             |
| trustsecsettings                                  | List    | Yes |           |       |                 |
| •<br>deviceAuthenticationSettings                 | List    | Yes |           |       |                 |
| •<br>sgaDeviceId                                  | String  | No  |           |       | networkDeviceId |
| •<br>sgaDevicePassword                            | String  | No  |           |       | aaa             |
| •<br>deviceConfigurationDeployment                | List    | Yes |           |       |                 |
| •<br>enableModePassword                           | String  | No  |           |       | aaa             |
| •<br>execModePassword                             | String  | No  |           |       | aaa             |
| •<br>execModeUsername                             | String  | No  |           |       | aaa             |
| •<br>includeWhenDeployingSGTUpdates               | Boolean | No  |           | false |                 |
| •<br>sgaNotificationAndUpdates                    | List    | Yes |           |       |                 |
| •<br>downloadEnvironmentDataEveryXSeconds         | Integer | No  |           | 86400 |                 |
| •<br>downloadPeerAuthorizationPolicyEveryXSeconds | Integer | No  |           | 86400 |                 |

Continued on next page

Table 11 – continued from previous page

|                                    |         |    |  |                  |  |
|------------------------------------|---------|----|--|------------------|--|
| • downloadSGACLListsEveryXSeconds  | Integer | No |  | 86400            |  |
| • otherSGADevicesToTrustThisDevice | Boolean | No |  | false            |  |
| • reAuthenticationEveryXSeconds    | Integer | No |  | 86400            |  |
| • sendConfigurationToDevice        | Boolean | No |  | false            |  |
| • sendConfigurationToDeviceUsing   | Enum    | No | Allowed values: EN-ABLE_USING_COA, EN-ABLE_USING_CLI, DIS-ABLE_ALL | ENABLE_USING_COA |  |

**get\_network\_device\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_device\_by\_name*

```

update_network_device_by_name (name, authentication_settings=None, coa_port=None,
                                description=None, dtls_dns_name=None, id=None,
                                model_name=None, network_device_group_list=None,
                                network_device_iplist=None, profile_name=None,
                                snmpsettings=None, software_version=None,
                                tacacs_settings=None, trustsecsettings=None, headers=None,
                                payload=None, active_validation=True,
                                **query_parameters)

```

This API allows the client to update a network device by name.

#### Parameters

- **network\_device\_group\_list** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **network\_device\_iplist** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **authentication\_settings** (*object*) – authenticationSettings, property of the request body.
- **coa\_port** (*integer*) – coaPort, property of the request body.
- **description** (*string*) – description, property of the request body.
- **dtls\_dns\_name** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **id** (*string*) – id, property of the request body.
- **model\_name** (*string*) – modelName, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **snmpsettings** (*object*) – snmpsettings, property of the request body.
- **software\_version** (*string*) – softwareVersion, property of the request body.
- **tacacs\_settings** (*object*) – tacacsSettings, property of the request body.
- **trustsecsettings** (*object*) – trustsecsettings, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *authentication\_settings=None*, *coa\_port=None*, *description=None*, *dtls\_dns\_name=None*, *id=None*, *model\_name=None*, *network\_device\_group\_list=None*, *network\_device\_ip\_list=None*, *profile\_name=None*, *snmpsettings=None*, *software\_version=None*, *tacacs\_settings=None*, *trustsecsettings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_device\_by\_name*

**delete\_network\_device\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a network device by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_by\_name*

**get\_network\_device\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_device\_by\_id*

**`update_network_device_by_id`** (*id*, *authentication\_settings=None*, *coa\_port=None*, *description=None*, *dtls\_dns\_name=None*, *model\_name=None*, *name=None*, *network\_device\_group\_list=None*, *network\_device\_ip\_list=None*, *profile\_name=None*, *snmpsettings=None*, *software\_version=None*, *tacacs\_settings=None*, *trustsecsettings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a network device by ID.

**Parameters**

- **`network_device_group_list`** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **`network_device_ip_list`** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **`authentication_settings`** (*object*) – authenticationSettings, property of the request body.
- **`coa_port`** (*integer*) – coaPort, property of the request body.
- **`description`** (*string*) – description, property of the request body.
- **`dtls_dns_name`** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.
- **`model_name`** (*string*) – modelName, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`profile_name`** (*string*) – profileName, property of the request body.
- **`snmpsettings`** (*object*) – snmpsettings, property of the request body.
- **`software_version`** (*string*) – softwareVersion, property of the request body.
- **`tacacs_settings`** (*object*) – tacacsSettings, property of the request body.
- **`trustsecsettings`** (*object*) – trustsecsettings, property of the request body.

- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, authentication_settings=None, coa_port=None, description=None,
               dtls_dns_name=None, model_name=None, name=None, network_device_group_list=None,
               network_device_ip_list=None, profile_name=None, snmpsettings=None,
               software_version=None, tacacs_settings=None, trustsecsettings=None,
               headers=None, payload=None, active_validation=True,
               **query_parameters)
```

Alias for *update\_network\_device\_by\_id*

```
delete_network_device_by_id (id, headers=None, **query_parameters)
```

This API deletes a network device by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_by\_id*

**get\_network\_device** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the network devices. Filter: [ipaddress, name, description, location, type] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for **get\_network\_device**

**get\_network\_device\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the network devices. Filter: [ipaddress, name, description, location, type] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18  
Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_network\_device\_generator*

**create\_network\_device** (*authentication\_settings=None, coa\_port=None, description=None, dtls\_dns\_name=None, model\_name=None, name=None, network\_device\_group\_list=None, network\_device\_ip\_list=None, profile\_name=None, snmpsettings=None, software\_version=None, tacacs\_settings=None, trustsecsettings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a network device.

#### Parameters

- **network\_device\_group\_list** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **network\_device\_ip\_list** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **authentication\_settings** (*object*) – authenticationSettings, property of the request body.
- **coa\_port** (*integer*) – coaPort, property of the request body.
- **description** (*string*) – description, property of the request body.
- **dtls\_dns\_name** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **model\_name** (*string*) – modelName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **snmpsettings** (*object*) – snmpsettings, property of the request body.
- **software\_version** (*string*) – softwareVersion, property of the request body.
- **tacacs\_settings** (*object*) – tacacsSettings, property of the request body.
- **trustsecsettings** (*object*) – trustsecsettings, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*authentication\_settings=None, coa\_port=None, description=None, dtls\_dns\_name=None, model\_name=None, name=None, network\_device\_group\_list=None, network\_device\_ip\_list=None, profile\_name=None, snmpsettings=None, software\_version=None, tacacs\_settings=None, trustsecsettings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_device*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the network device.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_network\_device** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_network\_device*

**monitor\_bulk\_status\_network\_device** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid**(*basestring*) – bulkid path parameter.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_network\_device*

## network\_device\_group

### class NetworkDeviceGroup

Identity Services Engine NetworkDeviceGroup API (version: 3.1.0).

Wraps the Identity Services Engine NetworkDeviceGroup API and exposes the API as native Python methods that return native Python objects.

Network Device Group API allows the client to search network device groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 1.3               | Initial Cisco ISE Version |
| 1          | 1.1              | 2.4               | Added GetByName operation |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Example Values                       |
|-------------|--------|----------|-------------------------------------|--------------------------------------|
| name        | String | Yes      | Resource Name                       | Device Type#All Device Types         |
| id          | String | No       | Resource UUID, mandatory for update | 70c79c30-8bff-11e6-996c-525400b48521 |
| description | String | No       |                                     | All Device Types                     |
| other-name  | String | No       |                                     | Device Type                          |

**get\_network\_device\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device group by name.

#### Parameters

- **name** (*basestring*) – name path parameter. colon is used as a separator instead of (#) in the NDG name. For example, if the name is a#b#c it should appear in the request URL as a:b:c.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_device_group_by_name`*

**`get_network_device_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_device_group_by_id`*

**`update_network_device_group_by_id`** (*id*, *description=None*, *name=None*, *other-name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a network device group.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.

- **name** (*string*) – name, property of the request body.
- **othername** (*string*) – othername, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *othername=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_network\_device\_group\_by\_id*

**delete\_network\_device\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a network device group.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_group\_by\_id*

**get\_network\_device\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the network device groups. Filter: [name, description, type] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_device\_group*

**get\_network\_device\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the network device groups. Filter: [name, description, type] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_network\_device\_group\_generator*

**create\_network\_device\_group** (*description=None, name=None, othername=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a network device group.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **othername** (*string*) – othername, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, othername=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_network\_device\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the network device group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## **node\_deployment**

**class NodeDeployment**

Identity Services Engine Node Deployment API (version: 3.1.0).

Wraps the Identity Services Engine Node Deployment API and exposes the API as native Python methods that return native Python objects.

APIs for the configuration, administration and monitoring of the nodes in an ISE cluster deployment.

**`get_nodes`** (*headers=None, \*\*query\_parameters*)

Discovers all deployment nodes in the cluster. It provides basic information about each of deployed nodes in the cluster like Hostname, personas, status, roles and services. .

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**register\_node** (*administration=None, fdqn=None, general\_settings=None, password=None, profile\_configuration=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Register ISE node to form a multi-node deployment .

#### Parameters

- **administration** (*object*) – administration, property of the request body.
- **fdqn** (*string*) – fdqn, property of the request body. Constraints: maxLength set to 256 and minLength set to 1.
- **general\_settings** (*object*) – generalSettings, property of the request body.
- **password** (*string*) – password, property of the request body.
- **profile\_configuration** (*object*) – profileConfiguration, property of the request body.
- **user\_name** (*string*) – userName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**promote\_node** (*promotion\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Changes the cluster setting by promoting a node to primary when executed on standalone or secondary node. It could also be used to convert a deployment node to standalone node. .

#### Parameters

- **promotion\_type** (*string*) – promotionType, property of the request body. Available values are 'SECONDARY\_TO\_PRIMARY', 'STANDALONE\_TO\_PRIMARY' and 'TO\_STANDALONE'.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.

- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_node\_details** (*hostname*, *headers=None*, *\*\*query\_parameters*)

It provides detailed information of the deployed node in the cluster. .

#### Parameters

- **hostname** (*basestring*) – hostname path parameter. ID of the existing deployed node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*hostname*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_details*



**update\_node** (*hostname*, *general\_settings=None*, *profile\_configuration=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Updates the deployed ISE node with the information provided .

#### Parameters

- **general\_settings** (*object*) – generalSettings, property of the request body.
- **profile\_configuration** (*object*) – profileConfiguration, property of the request body.
- **hostname** (*basestring*) – hostname path parameter. ID of the existing deployed node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_node** (*hostname*, *headers=None*, *\*\*query\_parameters*)

The de-register ednode becomes a standalone Cisco ISE node. It retains the last configuration that it received from the PrimaryPAN and assumes the default personas of a standalone node that are Administration, PolicyService, and Monitoring. .

#### Parameters

- **hostname** (*basestring*) – hostname path parameter. node name of the existing deployed node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## node\_group

### **class** NodeGroup

Identity Services Engine Node Group API (version: 3.1.0).

Wraps the Identity Services Engine Node Group API and exposes the API as native Python methods that return native Python objects.

APIs for the configuration, administration and monitoring of the nodes in an ISE cluster deployment.

**`get_node_groups`** (*headers=None, \*\*query\_parameters*)

Get details of all the node groups in the cluster. To detect node failure and to reset all URL-redirectioned sessions on the failed node, two or more Policy Service nodes can be placed in the same node group. When a node that belongs to a node group fails, another node in the same node group issues a Change of Authorization (CoA) for all URL-redirectioned sessions on the failed node.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_node_group`** (*node\_group\_name, headers=None, \*\*query\_parameters*)

Get details of a node group in the cluster.

### Parameters

- **node\_group\_name** (*basestring*) – node-group-name path parameter. ID of the existing node group.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create\_node\_group** (*node\_group\_name*, *description=None*, *mar\_cache=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Developers need to create node group in the system. Node Group is a group of PSNs, mainly used for terminating posture pending sessions when a PSN in local node group fails. Node group members can communicate over TCP/7800.

### Parameters

- **description** (*string*) – description, property of the request body. Constraints: maxLength set to 256 and minLength set to 1.
- **mar\_cache** (*object*) – mar-cache, property of the request body.
- **node\_group\_name** (*basestring*) – node-group-name path parameter. ID of the existing node group.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_node\_group** (*node\_group\_name*, *description=None*, *mar\_cache=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

API updates an existing node group in the system.

**Parameters**

- **`description`** (*string*) – description, property of the request body. Constraints: `maxLength` set to 256 and `minLength` set to 1.
- **`mar_cache`** (*object*) – mar-cache, property of the request body.
- **`node_group_name`** (*basestring*) – node-group-name path parameter. ID of the existing node group.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_node\_group** (*node\_group\_name*, *headers=None*, *\*\*query\_parameters*)

Developers need to delete node group in the system.

**Parameters**

- **`node_group_name`** (*basestring*) – node-group-name path parameter. ID of the existing node group.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## node\_details

### class NodeDetails

Identity Services Engine NodeDetails API (version: 3.1.0).

Wraps the Identity Services Engine NodeDetails API and exposes the API as native Python methods that return native Python objects.

Node Details API allows the client to get deployment node details, get all nodes and filter nodes based on NodeServiceTypes.

### Revision History

| Re-vi-sion # | Re-source Ver-sion | Cisco ISE Version | Description                                       | Revision Modifi-cation | Revision Modification  |
|--------------|--------------------|-------------------|---|------------------------|--|
|              |                    |                   |   | Attribute              | Description  |
| 0            | 1.0                | 2.2               | Initial Cisco ISE Ver-sion                        |                        |  |
| 1            | 1.1                | 2.4               | Support Node Service Types as part of Node Object | NodeSer-viceTypes      | Added String Field NodeServiceTypes. String represents services configured on the Node |
| 2            | 1.2                | 2.7               | Support Node FQDN as part of Node Object          | fqdn                   | Added String Field FQDN. String represents FQDN of the Node                            |
| 3            | 1.3                | 3.0               | Support SXP IP Ad-dress as part of Node Details   | sxpIpAd-dress          | Added String Field sxpIpAddress. String represents SXP IP Address of the Node          |

## Resource Definition

| Attribute         | Type    | Re-<br>quired | Description                         | Example Values                       |
|-------------------|---------|---------------|-------------------------------------|--------------------------------------|
| name              | String  | Yes           | Resource Name                       | TestNode                             |
| id                | String  | No            | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description       | String  | No            |                                     |                                      |
| gateWay           | String  | No            |                                     | 10.0.10.11                           |
| displayName       | String  | No            |                                     | TestNode                             |
| inDeployment      | Boolean | No            |                                     | false                                |
| ipAddresses       | String  | No            |                                     | [ "10.0.0.1", "10.0.0.2" ]           |
| otherPapFqdn      | String  | No            |                                     | OtherTestNode                        |
| ipAddress         | String  | No            |                                     | 10.0.0.3                             |
| sxpIpAddress      | String  | No            |                                     | 10.10.10.1                           |
| nodeService-Types | String  | No            |                                     | DEVICE ADMIN                         |
| fqdn              | String  | No            |                                     | test.ers.cisco.com                   |
| primaryPapNode    | Boolean | No            |                                     | true                                 |
| papNode           | Boolean | No            |                                     | true                                 |
| pxGridNode        | Boolean | No            |                                     | true                                 |

**get\_node\_detail\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get node details by name.

### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_detail\_by\_name*

**get\_node\_detail\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get node details by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_detail\_by\_id*

**get\_node\_details** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the node details. Filter: [nodeservice-types] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_node\_details*

**get\_node\_details\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the node details. Filter: [nodeservice-types] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_node\_details\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the node details.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## pan\_ha

### class PanHa

Identity Services Engine PAN HA API (version: 3.1.0).

Wraps the Identity Services Engine PAN HA API and exposes the API as native Python methods that return native Python objects.

APIs for the configuration, administration and monitoring of the nodes in an ISE cluster deployment.

**get\_pan\_ha\_status** (*headers=None, \*\*query\_parameters*)

In a high availability configuration, the Primary Administration Node (PAN) is in the active state. The Secondary PAN (backup PAN) is in the standby state, which means it receives all configuration updates from the Primary PAN, but is not active in the ISE network. You can configure ISE to automatically promote the secondary PAN when the primary PAN becomes unavailable.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**enable\_pan\_ha** (*failed\_attempts=None, is\_enabled=None, polling\_interval=None, primary\_health\_check\_node=None, secondary\_health\_check\_node=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

To deploy the auto-failover feature, you must have at least three nodes, where two of the nodes assume the Administration persona, and one node acts as the health check node. A health check node is a non-administration node and can be a Policy Service, Monitoring, or pxGrid node, or a combination of these. If the PANs are in different data centers, you must have a health check node for each PAN.

#### Parameters

- **failed\_attempts** (*integer*) – failedAttempts, property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **polling\_interval** (*integer*) – pollingInterval, property of the request body.
- **primary\_health\_check\_node** (*string*) – primaryHealthCheckNode, property of the request body. Constraints: maxLength set to 64 and minLength set to 1.

- **secondary\_health\_check\_node** (*string*) – secondaryHealthCheckNode, property of the request body. Constraints: maxLength set to 64 and minLength set to 1.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**disable\_pan\_ha** (*headers=None, \*\*query\_parameters*)

Disable the automatic PAN failover.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## portal\_global\_setting

### class PortalGlobalSetting

Identity Services Engine PortalGlobalSetting API (version: 3.1.0).

Wraps the Identity Services Engine PortalGlobalSetting API and exposes the API as native Python methods that return native Python objects.

The Portal Global Setting API allows the user to customize the text that is displayed in the Cisco ISE portals. This global setting controls whether HTML alone or both HTML and Javascript are permitted to be used in customized text.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute      | Type   | Re-quired | Description                              | Example Values                       |
|----------------|--------|-----------|--|--------------------------------------|
| id             | String | Yes       | Resource UUID value                      | 21013cb2-d030-4fb1-9ba2-35757634d770 |
| cus-tomization | Enum   | Yes       | Allowed values: HTML, HTMLAND-JAVASCRIPT | HTML                                 |

**get\_portal\_global\_setting\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get the portal global settings by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_portal\_global\_setting\_by\_id*

**update\_portal\_global\_setting\_by\_id** (*id*, *customization=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update the portal global settings by id.

**Parameters**

- **customization** (*string*) – Allowed values: HTML, HTMLANDJAVASCRIPT, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customization=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Alias for *update\_portal\_global\_setting\_by\_id*

**get\_portal\_global\_settings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
*sortasc=None*, *sortdsc=None*, *headers=None*,  
*\*\*query\_parameters*)

This API allows the client to get all the portal global settings. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_portal\_global\_settings*

**get\_portal\_global\_settings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portal global settings. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_portal\_global\_settings\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the portal global setting .

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## portal\_theme

**class PortalTheme**

Identity Services Engine PortalTheme API (version: 3.1.0).

Wraps the Identity Services Engine PortalTheme API and exposes the API as native Python methods that return native Python objects.

Portal Theme API allows the client to add, delete, update and search Portal Theme among other operations which are available from all the portals.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

**Resource Definition**



| Attribute   | Type   | Required | Description                         | Example Values                       |
|-------------|--------|----------|-------------------------------------|--------------------------------------|
| name        | String | Yes      | Resource Name                       | Default Blue theme                   |
| id          | String | No       | Resource UUID, mandatory for update | 9eb421c0-8c01-11e6-996c-525400b48521 |
| description | String | No       |                                     |                                      |
| theme-Data  | String | Yes      | Portal Theme for all portals        | Base 64 encoded string of CSS file   |

**get\_portal\_theme\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a portal theme by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_portal\_theme\_by\_id*

**update\_portal\_theme\_by\_id**(*id*, *description=None*, *name=None*, *theme\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a portal theme by ID.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **theme\_data** (*string*) – Portal Theme for all portals, property of the request body.
- **id** – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *theme\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_portal\_theme\_by\_id*

**delete\_portal\_theme\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a portal theme by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for [delete\\_portal\\_theme\\_by\\_id](#)

**get\_portal\_themes** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the portal themes. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for [get\\_portal\\_themes](#)

**get\_portal\_themes\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portal themes. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portal\_themes\_generator*

**create\_portal\_theme** (*description=None, name=None, theme\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a portal theme.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **theme\_data** (*string*) – Portal Theme for all portals, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, theme\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_portal\_theme*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the portal theme.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## profiler

### **class Profiler**

Identity Services Engine Profiler API (version: 3.1.0).

Wraps the Identity Services Engine Profiler API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_profiles** (*headers=None*, *\*\*query\_parameters*)  
getProfiles.

#### **Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### **Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## profiler\_profile

### class ProfilerProfile

Identity Services Engine ProfilerProfile API (version: 3.1.0).

Wraps the Identity Services Engine ProfilerProfile API and exposes the API as native Python methods that return native Python objects.

Profiler Profile API allows the client to search profiles.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute   | Type   | Re-quired | Description                         | Example Values                       |
|-------------|--------|-----------|-------------------------------------|--------------------------------------|
| name        | String | Yes       | Resource Name                       | 2Wire-Device                         |
| id          | String | No        | Resource UUID, mandatory for update | fe8c7cc0-8bff-11e6-996c-525400b48521 |
| description | String | No        |                                     | Policy for 2Wire-Device              |
| parentId    | String | Yes       |                                     |                                      |

**get\_profiler\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a profiler profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_profiler_profile_by_id`

**`get_profiler_profiles`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the profiler profiles. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_profiler\_profiles*

**`get_profiler_profiles_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the profiler profiles. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_profiler\_profiles\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the profiler profile.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## provider

### class Provider

Identity Services Engine Provider API (version: 3.1.0).

Wraps the Identity Services Engine Provider API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**register\_service** (*name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                                   *\*\*query\_parameters*)

ServiceRegister.

#### Parameters

- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**unregister\_service** (*headers=None, \*\*query\_parameters*)  
ServiceUnregister.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reregister\_service** (*headers=None, \*\*query\_parameters*)  
ServiceReregister.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**authorization** (*headers=None, \*\*query\_parameters*)  
Authorization.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**psn\_node\_details\_with\_radius\_service****class PsnNodeDetailsWithRadiusService**

Identity Services Engine PsnNodeDetailsWithRadiusService API (version: 3.1.0).

Wraps the Identity Services Engine PsnNodeDetailsWithRadiusService API and exposes the API as native Python methods that return native Python objects.

PSN Node Details with RADIUS Service API allows the client to get deployment node details where 'Session Services' is enabled.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

**Resource Definition**

| Attribute    | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       | TestNode                             |
| id           | String | No        | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| descrip-tion | String | No        |                                     | PSN with Session Service             |
| ipAd-dress   | String | Yes       |                                     | 10.0.0.1                             |

**get\_session\_service\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a PSN node details by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node\_by\_name*

**get\_session\_service\_node\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a PSN node details by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node\_by\_id*

**`get_session_service_node`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the PSN node details.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node*

**`get_session_service_node_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the PSN node details.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_session\_service\_node\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the PSN node.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



## pull\_deployment\_info

### class PullDeploymentInfo

Identity Services Engine PullDeploymentInfo API (version: 3.1.0).

Wraps the Identity Services Engine PullDeploymentInfo API and exposes the API as native Python methods that return native Python objects.

Pull Deployment Info API allows clients to get the complete information about a Cisco ISE deployment. The information includes details about the deployment, network access, NADs, MDMs, licenses, posture and profiler.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |

### Resource Definition

| Attribute         | Type    | Required | Description                         |
|-------------------|---------|----------|-------------------------------------|
| name              | String  | Yes      | Resource Name                       |
| id                | String  | No       | Resource UUID, mandatory for update |
| description       | String  | No       |                                     |
| networkAccessInfo | List    | No       | networkAccessInfo Details           |
| • deploymentID    | String  | Yes      | Deployment ID                       |
| • isCsnEnabled    | Boolean | Yes      | false                               |
| • nodeList        | List    | Yes      | Node list                           |

Continued on next page

Table 12 – continued from previous page

|                   |        |     |   |
|-------------------|--------|-----|---|
| • nodeAndScope    | List   | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean)   |
| • sdaVNs          | List   | No  |   |
| • trustSecControl | String | No  | ISE   |
| • radius3RdParty  | List   | No  |   |
| profilerInfo      | List   | No  | profilerInfo Details  |
| • deploymentID    | String | Yes | Deployment ID   |
| • nodeList        | List   | Yes | Node list   |
| • node            | List   | No  | Includes 'profiles' which is an array of dictionaries describing various attributes with the properties:- profile (List), - customProfilesCount (Integer), - endpointTypes (String), - totalProfilesCount (Integer), - uniqueEndpointsCount (Integer), - unknownEndpointsCount (Integer), - totalEndpointsCount (Integer), - unknownEndpointsPercentage (Integer) |
| deploymentInfo    | List   | No  | deploymentInfo Details  |
| • deploymentID    | String | Yes | Deployment ID   |

Continued on next page

Table 12 – continued from previous page

|                                |         |     |  |
|--------------------------------|---------|-----|--|
| • versionHistoryInfo           | List    | No  | Array of dictionaries describing various attributes with the properties:- opType (String), - mainVersion (String), - epochTime (Integer)   |
| • nodeList                     | List    | Yes | Node list  |
| • nodeAndNodeCountAndCountInfo | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declaredType (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| • fipsstatus                   | String  | No  | Disabled   |
| nadInfo                        | List    | No  | nadInfo Details  |
| • deploymentID                 | String  | Yes | Deployment ID  |
| • nodeList                     | List    | Yes | Node list  |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declaredType (String), - scope (String), - value (List), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean)   |
| • nadcountInfo                 | List    | No  |  |
| • totalActiveNADCount          | Integer | No  | 0  |
| mdmInfo                        | List    | No  | mdmInfo Details  |

Continued on next page

Table 12 – continued from previous page

|                                |         |     |   |
|--------------------------------|---------|-----|---|
| • activeMdmServersCount        | Integer | Yes | 0   |
| • activeDesktopMdmServersCount | Integer | Yes | 0   |
| • activeMobileMdmServersCount  | Integer | Yes | 0   |
| • deploymentID                 | String  | Yes | Deployment ID   |
| • nodeList                     | List    | Yes | Node list   |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| licensesInfo                   | List    | No  | licensesInfo Details  |
| • deploymentID                 | String  | Yes | Deployment ID   |
| • nodeList                     | List    | Yes | Node list   |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| postureInfo                    | List    | No  | postureInfo Details   |

Continued on next page

Table 12 – continued from previous page

|                |        |     |  |
|----------------|--------|-----|--|
| • content      | List   | Yes | Array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| kongInfo       | List   | No  | kongInfo Details   |
| • deploymentID | String | Yes | Deployment ID  |
| • nodeList     | List   | Yes | Node list  |
| • node         | List   | No  | Array of dictionaries describing various attributes with the properties:- sn (String), - service (List)  |

**get\_deployment\_info** (*timeout=None, headers=None, \*\*query\_parameters*)

This API allows the client to pull the deployment information.

#### Parameters

- **timeout** (*float, tuple*) – How long to wait for the server to send data before giving up.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*timeout=None, headers=None, \*\*query\_parameters*)

Alias for *get\_deployment\_info*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pull deployment info.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## px\_grid\_settings

### **class PxGridSettings**

Identity Services Engine PxGridSettings API (version: 3.1.0).

Wraps the Identity Services Engine PxGridSettings API and exposes the API as native Python methods that return native Python objects.

pxGrid Settings API allows the client to change auto-approve settings for pxGrid nodes. **Note:** From Cisco ISE Release 3.1, all pxGrid connections must be based on pxGrid 2.0. pxGrid 1.0-based (XMPP-based) integrations will cease to work on Cisco ISE from Release 3.1 onwards. pxGrid Version 2.0, which is based on WebSockets, was introduced in Cisco ISE Release 2.4. We recommend that you plan and upgrade your other systems to pxGrid 2.0-compliant versions in order to prevent potential disruptions, if any, to integrations.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute                     | Type    | Re-<br>quired | Description                                       | Default<br>Values | Example<br>Values |
|-------------------------------|---------|---------------|---|-------------------|-------------------|
| name                          | String  | Yes           | Resource Name                                     |                   |                   |
| id                            | String  | No            | Resource UUID, mandatory for update               |                   |                   |
| description                   | String  | No            |   |                   |                   |
| autoApproveCert-BasedAccounts | Boolean | Yes           | Auto approve certificate based accounts when true | false             | true              |
| allowPassword-BasedAccounts   | Boolean | Yes           | Allow password based accounts when true           | false             |                   |

**autoapprove\_px\_grid\_settings** (*allow\_password\_based\_accounts=None, auto\_approve\_cert\_based\_accounts=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to auto approve the pxGrid settings.

## Parameters

- **allow\_password\_based\_accounts** (*boolean*) – Allow password based accounts when true, property of the request body.
- **auto\_approve\_cert\_based\_accounts** (*boolean*) – Auto approve certificate based accounts when true, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**autoapprove** (*allow\_password\_based\_accounts=None, auto\_approve\_cert\_based\_accounts=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *autoapprove\_px\_grid\_settings*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pxGrid settings.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## radius\_failure

### class RadiusFailure

Identity Services Engine RADIUS Failure API (version: 3.1.0).

Wraps the Identity Services Engine RADIUS Failure API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_failures** (*headers=None, \*\*query\_parameters*)  
getFailures.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

### radius\_server\_sequence

#### class RadiusServerSequence

Identity Services Engine RADIUSServerSequence API (version: 3.1.0).

Wraps the Identity Services Engine RADIUSServerSequence API and exposes the API as native Python methods that return native Python objects.

RADIUS Server Sequence API allows the client to add, delete, update, search and perform actions on RADIUS server sequence.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute                   | Type    | Required | Description   | Default Values | Example Values                                       |
|-----------------------------|---------|----------|---|----------------|--|
| name                        | String  | Yes      | Resource Name   |                | name   |
| id                          | String  | No       | Resource UUID, mandatory for update   |                | ab6deded-fcc2-47ff-8577-0014737c8fcf                 |
| description                 | String  | No       |   |                | description  |
| stripPrefix                 | Boolean | No       |   | false          |  |
| stripSuffix                 | Boolean | No       |   | false          |  |
| prefixSeparator             | String  | No       | The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character  |                |  |
| suffixSeparator             | String  | No       | The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character  | @              |  |
| remoteAccounting            | Boolean | No       |   | true           |  |
| localAccounting             | Boolean | No       |   | false          |  |
| useAttrSetOnRequest         | Boolean | No       |   | false          |  |
| useAttrSetBeforeAuth        | Boolean | No       |   | false          |  |
| continueAuthorizationPolicy | Boolean | No       |   | false          |  |
| radiusServers               | List    | Yes      | List with names of external radius server. The order of the names in the list is the order of servers that will be used during authentication |                | [ “externalRadiusServer1”, “externalRadiusServer2” ] |
| onRequestAttrManipulators   | List    | No       | The onRequestAttrManipulators is required only if useAttrSetOnRequest is true   |                |  |
| • AttributeManipulator      | Enum    | Yes      | Allowed Values: ADD, UPDATE, REMOVE, REMOVEANY  |                | ADD  |
| • action                    | String  | Yes      |   |                | Cisco  |

**get\_radius\_server\_sequence\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a RADIUS server sequence by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence\_by\_id*

**update\_radius\_server\_sequence\_by\_id** (*id*, *before\_accept\_attr\_manipulators\_list=None*, *continue\_authorz\_policy=None*, *description=None*, *local\_accounting=None*, *name=None*, *on\_request\_attr\_manipulator\_list=None*, *prefix\_separator=None*, *radius\_server\_list=None*, *remote\_accounting=None*, *strip\_prefix=None*, *strip\_suffix=None*, *suffix\_separator=None*, *use\_attr\_set\_before\_acc=None*, *use\_attr\_set\_on\_request=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a RADIUS server sequence.

#### Parameters

- **before\_accept\_attr\_manipulators\_list** (*list*) – The beforeAcceptAttrManipulators is required only if useAttrSetBeforeAcc is true, property of the request body (list of objects).
- **on\_request\_attr\_manipulator\_list** (*list*) – The onRequestAttrManipulators is required only if useAttrSetOnRequest is true, property of the request body (list of objects).
- **radius\_server\_list** (*list*) – RadiusServerList, property of the request body (list of strings).

- **continue\_authorz\_policy** (*boolean*) – continueAuthorzPolicy, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_separator** (*string*) – The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **strip\_prefix** (*boolean*) – stripPrefix, property of the request body.
- **strip\_suffix** (*boolean*) – stripSuffix, property of the request body.
- **suffix\_separator** (*string*) – The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character, property of the request body.
- **use\_attr\_set\_before\_acc** (*boolean*) – useAttrSetBeforeAcc, property of the request body.
- **use\_attr\_set\_on\_request** (*boolean*) – useAttrSetOnRequest, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, before_accept_attr_manipulators_list=None, continue_authorz_policy=None,
               description=None, local_accounting=None, name=None,
               on_request_attr_manipulator_list=None, prefix_separator=None, radius_server_list=None,
               remote_accounting=None, strip_prefix=None, strip_suffix=None,
               suffix_separator=None, use_attr_set_before_acc=None,
               use_attr_set_on_request=None, headers=None, payload=None,
               active_validation=True, **query_parameters)
```

Alias for `update_radius_server_sequence_by_id`

```
delete_radius_server_sequence_by_id (id, headers=None, **query_parameters)
```

This API deletes a RADIUS server sequence.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
delete_by_id (id, headers=None, **query_parameters)
```

Alias for `delete_radius_server_sequence_by_id`

```
get_radius_server_sequence (page=None, size=None, headers=None, **query_parameters)
```

This API allows the client to get all the RADIUS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence*

**`get_radius_server_sequence_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the RADIUS server sequences.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** *Generator*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence\_generator*

```
create_radius_server_sequence (before_accept_attr_manipulators_list=None,  
                                continue_authorz_policy=None,           descrip-  
                                tion=None,           local_accounting=None,       name=None,  
                                on_request_attr_manipulator_list=None,       pre-  
                                fix_separator=None,           radius_server_list=None,  
                                remote_accounting=None,           strip_prefix=None,  
                                strip_suffix=None,           suffix_separator=None,  
                                use_attr_set_before_acc=None,  
                                use_attr_set_on_request=None,       headers=None,       pay-  
                                load=None, active_validation=True, **query_parameters)
```

This API creates a RADIUS server sequence.

#### Parameters

- **before\_accept\_attr\_manipulators\_list** (*list*) – The beforeAcceptAttrManipulators is required only if useAttrSetBeforeAcc is true, property of the request body (list of objects).
- **on\_request\_attr\_manipulator\_list** (*list*) – The onRequestAttrManipulators is required only if useAttrSetOnRequest is true, property of the request body (list of objects).
- **radius\_server\_list** (*list*) – RadiusServerList, property of the request body (list of strings).
- **continue\_authorz\_policy** (*boolean*) – continueAuthorzPolicy, property of the request body.
- **description** (*string*) – description, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_separator** (*string*) – The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **strip\_prefix** (*boolean*) – stripPrefix, property of the request body.
- **strip\_suffix** (*boolean*) – stripSuffix, property of the request body.
- **suffix\_separator** (*string*) – The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character, property of the request body.
- **use\_attr\_set\_before\_acc** (*boolean*) – useAttrSetBeforeAcc, property of the request body.
- **use\_attr\_set\_on\_request** (*boolean*) – useAttrSetOnRequest, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*before\_accept\_attr\_manipulators\_list=None, continue\_authorz\_policy=None, description=None, local\_accounting=None, name=None, on\_request\_attr\_manipulator\_list=None, prefix\_separator=None, radius\_server\_list=None, remote\_accounting=None, strip\_prefix=None, strip\_suffix=None, suffix\_separator=None, use\_attr\_set\_before\_acc=None, use\_attr\_set\_on\_request=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_radius\_server\_sequence*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the RADIUS server sequence.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.



## restid\_store

### **class RestidStore**

Identity Services Engine RESTIDStore API (version: 3.1.0).

Wraps the Identity Services Engine RESTIDStore API and exposes the API as native Python methods that return native Python objects.

REST ID Store API allows clients to add, get, update and delete REST ID stores.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute             | Type   | Required | Description  | Example Values                          |
|-----------------------|--------|----------|--|---|
| name                  | String | Yes      | Resource Name  | RestIdStore1                            |
| id                    | String | No       | Resource UUID, mandatory for update  | b1155994-b736-46af-9add-04bed3058e3a    |
| description           | String | No       |  | Object that represents the restID store |
| restIDStoreAttributes | List   | Yes      | Holds the attributes of the restID object  |   |
| • usernameSuffix      | String | Yes      | Suffix of the user-name domain   | @place.com                              |
| • rootUrl             | String | Yes      | url of the root of the RestIDStore   | rootUrl                                 |
| • predefined          | Enum   | Yes      | The cloud provider connected to of the RestIDStore. Options are: - Azure, - Okta, - None | Azure                                   |
| • headers             | List   | Yes      | Headers for the RestIDStore  |   |
| • key                 | String | Yes      | Key of the header  | tenantID                                |
| • value               | String | Yes      | Value of the header  | tenantID_value                          |

**get\_rest\_id\_store\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a REST ID store by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_rest\_id\_store\_by\_name*

**update\_rest\_id\_store\_by\_name** (*name*, *description=None*, *ers\_rest\_idstore\_attributes=None*, *id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a REST ID store by name.

Parameters

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – ersRestIDStoreAttributes, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *description=None*, *ers\_rest\_idstore\_attributes=None*, *id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_rest\_id\_store\_by\_name*

**delete\_rest\_id\_store\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a REST ID store by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_rest\_id\_store\_by\_name*

**get\_rest\_id\_store\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a REST ID store by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_rest_id_store_by_id`

`update_rest_id_store_by_id(id, description=None, ers_rest_idstore_attributes=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)`

This API allows the client to update a REST ID store.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – ersRestIDStoreAttributes, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`update_by_id(id, description=None, ers_rest_idstore_attributes=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)`

Alias for `update_rest_id_store_by_id`

`delete_rest_id_store_by_id(id, headers=None, **query_parameters)`

This API deletes a REST ID store.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_rest\_id\_store\_by\_id*

**`get_rest_id_store`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the REST ID stores. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_rest\_id\_store*

**`get_rest_id_store_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the REST ID stores. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_rest_id_store_generator`

**create\_rest\_id\_store** (*description=None, ers\_rest\_idstore\_attributes=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a REST ID store.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – `ersRestIDStoreAttributes`, property of the request body.
- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to `True`.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** `RestResponse`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.



- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, ers\_rest\_idstore\_attributes=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_rest\_id\_store*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the REST ID store.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## replication\_status

### class ReplicationStatus

Identity Services Engine Replication Status API (version: 3.1.0).

Wraps the Identity Services Engine Replication Status API and exposes the API as native Python methods that return native Python objects.

APIs for the configuration, administration and monitoring of the nodes in an ISE cluster deployment.

**get\_node\_replication\_status** (*node, headers=None, \*\*query\_parameters*)

Retrives replication status of a node.

#### Parameters

- **node** (*basestring*) – node path parameter. ID of the existing node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## repository

### **class Repository**

Identity Services Engine Repository API (version: 3.1.0).

Wraps the Identity Services Engine Repository API and exposes the API as native Python methods that return native Python objects.

**`get_repositories`** (*headers=None, \*\*query\_parameters*)

This will get the full list of repository definitions on the system. .

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_repositories*

**`create_repository`** (*enable\_pki=None, name=None, password=None, path=None, protocol=None, server\_name=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create a new repository in the system. The name provided for the repository must be unique. .

### Parameters

- **enable\_pki** (*boolean*) – enablePki, property of the request body.
- **name** (*string*) – Repository name should be less than 80 characters and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **password** (*string*) – Password can contain alphanumeric and/or special characters., property of the request body.
- **path** (*string*) – Path should always start with “/” and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **protocol** (*string*) – protocol, property of the request body. Available values are ‘CDROM’, ‘DISK’, ‘FTP’, ‘HTTP’, ‘HTTPS’, ‘NFS’, ‘SFTP’ and ‘TFTP’.
- **server\_name** (*string*) – serverName, property of the request body.
- **user\_name** (*string*) – Username may contain alphanumeric and \_./@\$ characters., property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*enable\_pki=None, name=None, password=None, path=None, protocol=None, server\_name=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_repository*

**get\_repository** (*name, headers=None, \*\*query\_parameters*)  
Get a specific repository identified by the name passed in the URL. .

### Parameters

- **name** (*basestring*) – name path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_repository*

**update\_repository** (*name*, *enable\_pki=None*, *password=None*, *path=None*, *protocol=None*, *server\_name=None*, *user\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Update the definition of a specific repository, providing ALL parameters for the repository. .

#### Parameters

- **enable\_pki** (*boolean*) – enablePki, property of the request body.
- **name** (*basestring*) – Repository name should be less than 80 characters and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **password** (*string*) – Password can contain alphanumeric and/or special characters., property of the request body.
- **path** (*string*) – Path should always start with “/” and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **protocol** (*string*) – protocol, property of the request body. Available values are ‘CDROM’, ‘DISK’, ‘FTP’, ‘HTTP’, ‘HTTPS’, ‘NFS’, ‘SFTP’ and ‘TFTP’.
- **server\_name** (*string*) – serverName, property of the request body.
- **user\_name** (*string*) – Username may contain alphanumeric and \_./@\$ characters., property of the request body.
- **name** – name path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *enable\_pki=None*, *password=None*, *path=None*, *protocol=None*, *server\_name=None*, *user\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_repository*

**delete\_repository** (*name*, *headers=None*, *\*\*query\_parameters*)

Long description TBD .

**Parameters**

- **`name`** (*basestring*) – name path parameter. Unique name for a repository.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_repository*

**get\_repository\_files** (*name*, *headers=None*, *\*\*query\_parameters*)

This will get the full list of files present in the named repository. .

**Parameters**

- **name** (*basestring*) – name path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_files** (*name, headers=None, \*\*query\_parameters*)  
Alias for *get\_repository\_files*

**sms\_provider****class SmsProvider**

Identity Services Engine SMSProvider API (version: 3.1.0).

Wraps the Identity Services Engine SMSProvider API and exposes the API as native Python methods that return native Python objects.

SMS Provider API allows the client to search the SMS providers configured from Cisco ISE GUI.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

**Resource Definition**

| Attribute   | Type   | Required | Description                         | Example Values                       |
|-------------|--------|----------|-------------------------------------|--------------------------------------|
| name        | String | Yes      | Resource Name                       | name                                 |
| id          | String | No       | Resource UUID, mandatory for update | b1155994-b736-46af-9add-04bed3058e3a |
| description | String | No       |                                     |                                      |

**get\_sms\_provider** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SMS providers. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sms\_provider*

**get\_sms\_provider\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SMS providers. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator



**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sms\_provider\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SMS provider.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**sxp\_connections****class SxpConnections**

Identity Services Engine SXPCConnections API (version: 3.1.0).

Wraps the Identity Services Engine SXPCConnections API and exposes the API as native Python methods that return native Python objects.

SXP Connections API allows clients to add, get, update and delete the Security Group Tag (SGT) Exchange Protocol (SXP) connections.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description                 | Revision Modification | Revision Modification                              |
|------------|------------------|-------------------|-----------------------------|-----------------------|--|
|            |                  |                   |                             | Attribute             | Description  |
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version   |                       |  |
| 1          | 1.1              | 3.0               | Cisco ISE 3.0 model changes | sxpVpn                | Attribute can include some VPNs separated by comma |

### Resource Definition

| Attribute   | Type    | Required | Description         | Example Values                       |
|-------------|---------|----------|---------------------|--------------------------------------|
| name        | String  | Yes      | Resource Name       |                                      |
| id          | String  | No       | Resource UUID value | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| description | String  | No       |                     | Brief description about network peer |
| sxpPeer     | String  | Yes      |                     | Sxp Peer Name                        |
| sxpVpn      | String  | Yes      |                     | Sxp VPN Name                         |
| sxpNode     | String  | Yes      |                     | Sxp Node Name                        |
| ipAddress   | String  | Yes      |                     | Sxp Peer IP address                  |
| sxpMode     | String  | Yes      |                     | Sxp Mode                             |
| sxpVersion  | String  | Yes      |                     | Sxp Version                          |
| enabled     | Boolean | Yes      |                     | true                                 |

**get\_sxp\_connections\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP connection by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for [get\\_sxp\\_connections\\_by\\_id](#)

**update\_sxp\_connections\_by\_id** (*id*, *description=None*, *enabled=None*, *ip\_address=None*, *sxp\_mode=None*, *sxp\_node=None*, *sxp\_peer=None*, *sxp\_version=None*, *sxp\_vpn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a SXP connection.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **enabled** (*boolean*) – enabled, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_address** (*string*) – ipAddress, property of the request body.
- **sxp\_mode** (*string*) – sxpMode, property of the request body.
- **sxp\_node** (*string*) – sxpNode, property of the request body.
- **sxp\_peer** (*string*) – sxpPeer, property of the request body.
- **sxp\_version** (*string*) – sxpVersion, property of the request body.
- **sxp\_vpn** (*string*) – sxpVpn, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *enabled=None*, *ip\_address=None*, *sxp\_mode=None*, *sxp\_node=None*, *sxp\_peer=None*, *sxp\_version=None*, *sxp\_vpn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for [update\\_sxp\\_connections\\_by\\_id](#)

**delete\_sxp\_connections\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a SXP connection.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sxp\_connections\_by\_id*

**get\_sxp\_connections** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP connections. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sxp\_connections*

**get\_sxp\_connections\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SXP connections. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for [get\\_sxp\\_connections\\_generator](#)

**create\_sxp\_connections** (*description=None, enabled=None, ip\_address=None, sxp\_mode=None, sxp\_node=None, sxp\_peer=None, sxp\_version=None, sxp\_vpn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a SXP connection.

### Parameters

- **description** (*string*) – description, property of the request body.
- **enabled** (*boolean*) – enabled, property of the request body.
- **ip\_address** (*string*) – ipAddress, property of the request body.
- **sxp\_mode** (*string*) – sxpMode, property of the request body.
- **sxp\_node** (*string*) – sxpNode, property of the request body.
- **sxp\_peer** (*string*) – sxpPeer, property of the request body.
- **sxp\_version** (*string*) – sxpVersion, property of the request body.
- **sxp\_vpn** (*string*) – sxpVpn, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, enabled=None, ip\_address=None, sxp\_mode=None, sxp\_node=None, sxp\_peer=None, sxp\_version=None, sxp\_vpn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_sxp\_connections*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP connections.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_sxp\_connections** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_request\_for\_sxp\_connections*

**monitor\_bulk\_status\_sxp\_connections** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*



Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_sxp\_connections*

sxp\_local\_bindings

**class SxpLocalBindings**  
Identity Services Engine SXPLocalBindings API (version: 3.1.0).  
  
Wraps the Identity Services Engine SXPLocalBindings API and exposes the API as native Python methods that return native Python objects.

SXP Local Bindings API allows clients to add, get, update and delete SGT static mappings.

Revision History

| Revi-<br>sion<br># | Resource<br>Version | Cisco ISE<br>Version | Description                    | Revision<br>Modification | Revision Modification                          |
|--------------------|---------------------|----------------------|--------------------------------|--------------------------|--|
|                    |                     |                      |                                | Attribute                | Description                                    |
| 0                  | 1.0                 | 2.0                  | Initial Cisco ISE<br>Version   |                          |  |
| 1                  | 1.1                 | 3.0                  | Cisco ISE 3.0<br>model changes | vns                      | Added new property for the<br>Virtual Networks |

Resource Definition

| Attribute       | Type   | Required | Description  | Example Values                       |
|-----------------|--------|----------|--|--------------------------------------|
| name            | String | Yes      | Resource Name  |                                      |
| id              | String | No       | Resource UUID value  | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| description     | String | No       |  |                                      |
| binding-Name    | String | No       | This field is deprecated from Cisco ISE 3.0  |                                      |
| ipAddressOrHost | String | Yes      | IP address for static mapping (hostname is not supported)  | ipAddressOrHost                      |
| sgt             | String | Yes      | SGT name or ID   | sgt_id                               |
| sxpVpn          | String | Yes      | List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined      | Sxp Vpn Name                         |
| vns             | String | Yes      | List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined | virtualNetwork                       |

**get\_sxp\_local\_bindings\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP local binding by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_local\_bindings\_by\_id*

**update\_sxp\_local\_bindings\_by\_id** (*id*, *binding\_name=None*, *description=None*, *ip\_address\_or\_host=None*, *sgt=None*, *sxp\_vpn=None*, *vns=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a SXP local binding.

### Parameters

- **binding\_name** (*string*) – This field is deprecated from Cisco ISE 3.0, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_address\_or\_host** (*string*) – IP address for static mapping (hostname is not supported), property of the request body.
- **sgt** (*string*) – SGT name or ID, property of the request body.
- **sxp\_vpn** (*string*) – List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **vns** (*string*) – List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, binding_name=None, description=None, ip_address_or_host=None, sgt=None,
            sxp_vpn=None, vns=None, headers=None, payload=None, active_validation=True,
            **query_parameters)
```

Alias for `update_sxp_local_bindings_by_id`

```
delete_sxp_local_bindings_by_id(id, headers=None, **query_parameters)
```

This API deletes a SXP local binding.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sxp\_local\_bindings\_by\_id*

**get\_sxp\_local\_bindings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP local bindings. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_sxp\_local\_bindings*

**`get_sxp_local_bindings_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SXP local bindings. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sxp\_local\_bindings\_generator*

**create\_sxp\_local\_bindings** (*binding\_name=None, description=None, id=None, ip\_address\_or\_host=None, sgt=None, sxp\_vpn=None, vns=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a SXP local binding.

### Parameters

- **binding\_name** (*string*) – This field is deprecated from Cisco ISE 3.0, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **ip\_address\_or\_host** (*string*) – IP address for static mapping (hostname is not supported), property of the request body.
- **sgt** (*string*) – SGT name or ID, property of the request body.
- **sxp\_vpn** (*string*) – List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **vns** (*string*) – List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*binding\_name=None, description=None, id=None, ip\_address\_or\_host=None, sgt=None, sxp\_vpn=None, vns=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sxp\_local\_bindings*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP local bindings.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_sxp\_local\_bindings** (*operation\_type=None, source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – operationType, property of the request body.

- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_sxp\_local\_bindings*

**monitor\_bulk\_status\_sxp\_local\_bindings** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.



- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_sxp\_local\_bindings*

## sxp\_vpns

### class SxpVpns

Identity Services Engine SXPVPNs API (version: 3.1.0).

Wraps the Identity Services Engine SXPVPNs API and exposes the API as native Python methods that return native Python objects.

SXP VPNs API allows clients to add, get and delete SXP VPNs (SXP Domains).

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description         | Example Values                       |
|-------------|--------|----------|---------------------|--------------------------------------|
| name        | String | Yes      | Resource Name       |                                      |
| id          | String | No       | Resource UUID value | ef36ca16-0cf7-4806-b2a9-6f547cfe4805 |
| description | String | No       |                     |                                      |
| sxpVpnName  | String | Yes      |                     | default                              |

**get\_sxp\_vpn\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP VPN by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_sxp_vpn_by_id`*

**`delete_sxp_vpn_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a SXP VPN.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sxp_vpn_by_id`*

**`get_sxp_vpns`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP VPNs. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_sxp\_vpns*

**get\_sxp\_vpns\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP VPNs. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_vpns\_generator*

**create\_sxp\_vpn** (*sxp\_vpn\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates a SXP VPN.

### Parameters

- **sxp\_vpn\_name** (*string*) – sxpVpnName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*sxp\_vpn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sxp\_vpn*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP VPNs.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_sxp\_vpns** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_sxp\_vpns*

**monitor\_bulk\_status\_sxp\_vpns** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_sxp\_vpns*

## security\_group\_to\_virtual\_network

### class SecurityGroupToVirtualNetwork

Identity Services Engine SecurityGroupToVirtualNetwork API (version: 3.1.0).

Wraps the Identity Services Engine SecurityGroupToVirtualNetwork API and exposes the API as native Python methods that return native Python objects.

SGT mapping to virtual networks are mapped to referenced vlan. These constructs come from out side of Cisco ISE and are not CRUDable inside Cisco ISE.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute            | Type   | Required | Description  | Example Values  |
|----------------------|--------|----------|--|---|
| name                 | String | Yes      | Resource Name  | name  |
| id                   | String | No       | Resource UUID, mandatory for update  | 1af3d6e2-cc3b-4603-b80f-6827768335ab  |
| description          | String | No       |  | description   |
| sgtId                | String | No       |  | sgt_id  |
| virtual-network-list | List   | No       | Includes 'vlans' which is an array of dictionaries describing various attributes with the properties: - id (String), - name (String), - description (String), - defaultVlan (Boolean), - maxVlan (Integer), - data (Boolean) | <pre> {   "id": "1af3d6e2-cc3b-4603-b80f-6827768335ab",   "name": "virtual1",   "description": "description",   "defaultVirtualNetwork": false,   "vlans": [     {       "id": "1af3d6e2-cc3b-4603-b80f-6827768335ab",       "name": "vlan1",       "description": "description1",       "defaultVlan": true,       "maxVlan": 1882725260,       "data": true     }   ] }</pre> |

**get\_security\_groups\_to\_vn\_to\_vlan\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group to virtual network by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_groups\_to\_vn\_to\_vlan\_by\_id*

**update\_security\_groups\_to\_vn\_to\_vlan\_by\_id** (*id*, *description=None*, *name=None*,  
*sgt\_id=None*, *virtualnetwork-*  
*list=None*, *headers=None*, *pay-*  
*load=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a security group to virtual network.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt\_id** (*string*) – sgtId, property of the request body.
- **virtualnetworklist** (*list*) – virtualnetworklist, property of the request body (list of objects).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *description=None*, *name=None*, *sgt\_id=None*, *virtualnetworklist=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for `update_security_groups_to_vn_to_vlan_by_id`

**`delete_security_groups_to_vn_to_vlan_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a security group ACL to virtual network.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for `delete_security_groups_to_vn_to_vlan_by_id`

**`get_security_groups_to_vn_to_vlan`**(*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security group ACL to virtual networks. Filter: [sgtId] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

Date:GET

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_to\_vn\_to\_vlan*

**get\_security\_groups\_to\_vn\_to\_vlan\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security group ACL to virtual networks. Filter: [sgtId] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_all_generator(filter=None, filter_type=None, page=None, size=None, headers=None,
                  **query_parameters)
```

Alias for `get_security_groups_to_vn_to_vlan_generator`

```
create_security_groups_to_vn_to_vlan(description=None, id=None, name=None,  
                                     sgt_id=None, virtualnetworklist=None,  
                                     headers=None, payload=None, ac-  
tive_validation=True,**query_parameters)
```

This API creates a security group to virtual network.

## Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.

- **sgt\_id** (*string*) – sgtId, property of the request body.
- **virtualnetworklist** (*list*) – virtualnetworklist, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, id=None, name=None, sgt\_id=None, virtualnetworklist=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_groups\_to\_vn\_to\_vlan*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security group to virtual network.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_groups\_to\_vn\_to\_vlan** (*operation\_type=None, re-source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_security\_groups\_to\_vn\_to\_vlan*

**monitor\_bulk\_status\_security\_groups\_to\_vn\_to\_vlan** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_groups\_to\_vn\_to\_vlan*

**security\_groups****class SecurityGroups**

Identity Services Engine SecurityGroups API (version: 3.1.0).

Wraps the Identity Services Engine SecurityGroups API and exposes the API as native Python methods that return native Python objects.

SGT API allows the client to search SGTs.

**Revision History**

| Re-vi-sion # | Re-source Version | Cisco ISE Version | Description                 | Revision Modifica-tion | Revision Modification   |
|--------------|-------------------|-------------------|-----------------------------|------------------------|---|
|              |                   |                   |                             | Attribute              | Description   |
| 0            | 1.0               | 1.2               | Initial Cisco ISE Version   |                        |   |
| 1            | 1.1               | 1.4               | Cisco ISE 1.4 model changes | isTagFrom-Range        | Removed Attribute isTagFromRange - depricated - set to FALSE value by default |
| 2            | 1.2               | 2.3               | Cisco ISE 2.3 model changes | propagate-ToApic       | Added Boolean Attribute propagate-ToApic - By default value is false          |
| 3            | 1.3               | 2.7               | Cisco ISE 2.7 model changes | isRead-Only            | Added Boolean Attribute isReadOnly - By default value is false                |
|              |                   |                   |                             | defaultS-GACLs         | Added List Attribute defaultSGACLs  |

## Resource Definition

| Attribute        | Type    | Re-quired | Description                                    | Default Values | Example Values                       |
|------------------|---------|-----------|--|----------------|--------------------------------------|
| name             | String  | Yes       | Resource Name                                  |                | Employees                            |
| id               | String  | No        | Resource UUID, mandatory for update            |                | 93ad6890-8c01-11e6-996c-525400b48521 |
| description      | String  | No        |  |                | Employee Security Group              |
| value            | Integer | Yes       | Value range: 2 to 65519 or -1 to auto-generate |                | 4                                    |
| propagate-ToApic | Boolean | No        |  |                | true                                 |
| isRead-Only      | Boolean | No        |  | false          |                                      |
| defaultS-GACLs   | List    | No        |  |                | [ ]                                  |
| propagate-ToApic | Boolean | No        |  |                | true                                 |
| generationId     | Integer | No        |  |                | 0                                    |

**get\_security\_group\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group by ID.

## Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_group\_by\_id*

```
update_security_group_by_id(id, default_sgacIs=None, description=None, generation_id=None, is_read_only=None, name=None, propagate_to_apic=None, value=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a security group.

#### Parameters

- **default\_sgacIs** (*list*) – defaultSGACLs, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **name** (*string*) – name, property of the request body.
- **propagate\_to\_apic** (*boolean*) – propagateToApic, property of the request body.
- **value** (*integer*) – Value range: 2 to 65519 or -1 to auto- generate, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, default_sgacIs=None, description=None, generation_id=None, is_read_only=None, name=None, propagate_to_apic=None, value=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_security_group_by_id`

```
delete_security_group_by_id(id, headers=None, **query_parameters)
```

This API deletes a security group.



### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_security\_group\_by\_id*

**get\_security\_groups** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security groups. Filter: [propagateToApic, name, description, value] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description, value].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups*

**get\_security\_groups\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security groups. Filter: [propagateToApic, name, description, value] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description, value].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_generator*

**create\_security\_group** (*default\_sgacls=None, description=None, generation\_id=None, is\_read\_only=None, name=None, propogate\_to\_apic=None, value=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a security group.

### Parameters

- **default\_sgacls** (*list*) – defaultSGACLs, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **name** (*string*) – name, property of the request body.
- **propogate\_to\_apic** (*boolean*) – propogateToApic, property of the request body.
- **value** (*integer*) – Value range: 2 ot 65519 or -1 to auto- generate, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*default\_sgacIs=None, description=None, generation\_id=None, is\_read\_only=None, name=None, propagate\_to\_apic=None, value=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security groups.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_group** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – operationType, property of the request body.

- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_request\_for\_security\_group*

**monitor\_bulk\_status\_security\_group** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_group*

## security\_groups\_acls

### class SecurityGroupsAcls

Identity Services Engine SecurityGroupsACLs API (version: 3.1.0).

Wraps the Identity Services Engine SecurityGroupsACLs API and exposes the API as native Python methods that return native Python objects.

Security Groups ACLs API allows the client to search security groups access control lists.

### Revision History

| Revi-<br>sion<br># | Resource<br>Version | Cisco ISE<br>Version | Description                 | Revision<br>Modification | Revision Modification                      |
|--------------------|---------------------|----------------------|-----------------------------|--------------------------|--|
|                    |                     |                      |                             | Attribute                | Description                                |
| 0                  | 1.0                 | 2.0                  | Initial Cisco ISE Version   |                          |  |
| 1                  | 1.1                 | 2.3                  | Introducing bulk operations |                          |  |
| 2                  | 1.2                 | 3.1                  | Cisco ISE 3.1 model changes | modelledContent          | Adding modelled content from Cisco ISE 3.1 |

### Resource Definition

| Attribute        | Type    | Required | Description  | Default Values | Example Values                       |
|------------------|---------|----------|--|----------------|--------------------------------------|
| name             | String  | Yes      | Resource Name  |                | Permit IP                            |
| id               | String  | No       | Resource UUID, mandatory for update  |                | 92951ac0-8c01-11e6-996c-525400b48521 |
| description      | String  | No       |  |                | Permit IP SGACL                      |
| ACLContent       | String  | No       |  |                | permit ip                            |
| ipVersion        | Enum    | Yes      | Allowed values: IPV4, IPV6, IP_AGNOSTIC                                    | IPV4           |                                      |
| isRead-Only      | Boolean | No       |  | false          |                                      |
| generationId     | String  | No       | GenerationId is a read only attribute and is being generated by the server |                | 0                                    |
| modelled-Content | List    | No       | Modelled content of contract   |                |                                      |

**get\_security\_groups\_acl\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group ACL by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_groups\_acl\_by\_id*

```
update_security_groups_acl_by_id(id, aclcontent=None, description=None, generation_id=None, ip_version=None, is_read_only=None, modelled_content=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a security group ACL.

#### Parameters

- **aclcontent** (*string*) – aclcontent, property of the request body.
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_version** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **modelled\_content** (*object*) – Modelled content of contract, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, aclcontent=None, description=None, generation_id=None, ip_version=None, is_read_only=None, modelled_content=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *update\_security\_groups\_acl\_by\_id*

```
delete_security_groups_acl_by_id(id, headers=None, **query_parameters)
```

This API deletes a security group ACL.



### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_security\_groups\_acl\_by\_id*

**get\_security\_groups\_acl** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security group ACLs. Filter: [ipVersion, name, description] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [ipVersion, name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_acl*

**get\_security\_groups\_acl\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security group ACLs. Filter: [ipVersion, name, description] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [ipVersion, name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_acl\_generator*

**create\_security\_groups\_acl** (*aclcontent=None, description=None, generation\_id=None, ip\_version=None, is\_read\_only=None, modelled\_content=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a security group ACL.

### Parameters

- **aclcontent** (*string*) – aclcontent, property of the request body.
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **ip\_version** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **modelled\_content** (*object*) – Modelled content of contract, property of the request body.
- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*aclcontent=None, description=None, generation\_id=None, ip\_version=None, is\_read\_only=None, modelled\_content=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_groups\_acl*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security group ACLs.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_groups\_acl** (*operation\_type=None, re-source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_security\_groups\_acl*

**monitor\_bulk\_status\_security\_groups\_acl** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_groups\_acl*

## self\_registered\_portal

### class SelfRegisteredPortal

Identity Services Engine SelfRegisteredPortal API (version: 3.1.0).

Wraps the Identity Services Engine SelfRegisteredPortal API and exposes the API as native Python methods that return native Python objects.

Self Registered Guest Portal API provides the ability to create, read, update, delete and search self registered portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Default Values | Example Values  |
|-------------|--------|----------|-------------------------------------|----------------|---|
| name        | String | Yes      | Resource Name                       |                | Self-Registered Guest Portal (default)  |
| id          | String | No       | Resource UUID, mandatory for update |                | 4e8ade36-4048-472a-b345-632cc155acfc  |
| description | String | No       |                                     |                | Guests may create their own accounts and be assigned a username and password, or use their social login to access the network |

Continued on next page

Table 13 – continued from previous page

|                        |         |     |  |              |   |
|------------------------|---------|-----|--|--------------|---|
| portalTestUrl          | String  | No  | URL to bring up a test page for this portal  |              | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?po4048-472a-b345-632cc155acfc">https://{ise-ip}:8443/portal/PortalSetup.action?po4048-472a-b345-632cc155acfc</a> |
| portalType             | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDE-VICE, SELF-REGGUEST, SPONSOR, SPON-SOREDQUEST | SELFREGGUEST |   |
| settings               | List    | No  | Defines all of the settings groups available for a portal                              |              |   |
| • portalSettings       | List    | No  | The port, interface, certificate, and other basic settings of a portal                 |              |   |
| • httpsPort            | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999    |              | 8443  |
| • allowedInterfaces    | Enum    | Yes | Interfaces that the portal will be reachable on.                                       |              | [ “eth0”, “bond0” ]   |
| • certificateGroupTag  | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal          |              | Default Portal Certificate Group  |
| • authenticationMethod | String  | Yes | Unique Id of the identity source sequence  |              | 92e50f80-8c01-11e6-996c-525400b48521  |

Continued on next page

Table 13 – continued from previous page

|                                    |         |     |   |        |                      |
|------------------------------------|---------|-----|---|--------|----------------------|
| • assignedGuestTypeForEmployee     | String  | Yes | Unique Id of a guest type. Employees using this portal as a guest inherit login options from the guest type |        | Contractor (default) |
| • displayLang                      | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE   |        | USEBROWSERLOCALE     |
| • fallbackLanguage                 | String  | No  | Used when displayLang = USE-BROWSER-LOCALE  |        | English              |
| • alwaysUsedLanguage               | String  | No  | Used when displayLang = ALWAYSUSE   |        | English              |
| • loginPageSettings                | List    | No  | Portal Login Page settings groups follow  |        |                      |
| • maxFailedAttemptsBeforeRateLimit | Integer | No  | Maximum failed login attempts before rate limiting  | 5      |                      |
| • timeBetweenLoginsDuringRateLimit | Integer | No  | Time between login attempts when rate limiting  | 2      |                      |
| • includeAup                       | Boolean | No  | Include an Acceptable Use Policy (AUP) that should be displayed during login                                | false  |                      |
| • aupDisplay                       | Enum    | No  | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.              | ASLINK |                      |

Continued on next page



Table 13 – continued from previous page

|                              |         |    |  |       |       |
|------------------------------|---------|----|--|-------|-------|
| • requireAupAcceptance       | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                   | false |       |
| • requireAccessCode          | Boolean | No | Require the portal user to enter an access code  | false |       |
| • accessCode                 | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true) |       |       |
| • allowGuestToCreateAccounts | Boolean | No |  | false |       |
| • allowGuestToChangePassword | Boolean | No | Require the portal user to enter an access code  | false |       |
| • allowAlternateGuestPortal  | Boolean | No |  |       | false |
| • alternateGuestPortal       | String  | No |  |       |       |
| • selfRegPageSettings        | List    | No |  |       |       |
| • assignGuestsToGuestType    | String  | No | Guests are assigned to this guest type   |       |       |
| • accountValidityDuration    | Integer | No | Self-registered guest account is valid for this many account_validity_time_units             | 1     |       |
| • accountValidityTimeUnits   | Enum    | No | Time units for account_validity_duration.  | DAYS  |       |

Continued on next page

Table 13 – continued from previous page

|                           |         |    |  |       |       |
|---------------------------|---------|----|--|-------|-------|
| • requireRegistrationCode | Boolean | No | Self-registered guests are required to enter a registration code | false |       |
| • registrationCode        | String  | No | The registration code that the guest user must enter             |       |       |
| • fieldUserName           | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldFirstName          | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldLastName           | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldEmailAddr          | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |

Continued on next page

Table 13 – continued from previous page

|                             |         |    |   |  |                    |
|-----------------------------|---------|----|---|--|--------------------|
| •<br>fieldPhoneNo           | List    | No |   |  |                    |
| • include                   | Boolean | No |   |  | true               |
| • require                   | Boolean | No | Only applicable if include = true                             |  | false              |
| •<br>fieldCompany           | List    | No |   |  |                    |
| • include                   | Boolean | No |   |  | true               |
| • require                   | Boolean | No | Only applicable if include = true                             |  | false              |
| •<br>fieldLocation          | List    | No |   |  |                    |
| • include                   | Boolean | No |   |  | true               |
| • require                   | Boolean | No | Only applicable if include = true                             |  | false              |
| •<br>selectableLocations    | List    | No | Guests can choose from these locations to set their time zone |  | [“San Jose”]       |
| •<br>fieldSmsProvider       | List    | No |   |  |                    |
| • include                   | Boolean | No |   |  | true               |
| • require                   | Boolean | No | Only applicable if include = true                             |  | false              |
| •<br>selectableSmsProviders | List    | No | This attribute is an array of SMS provider names              |  | [“Global Default”] |

Continued on next page

Table 13 – continued from previous page

|                                |         |    |  |        |       |
|--------------------------------|---------|----|--|--------|-------|
| •<br>fieldPersonBeingVisited   | List    | No |  |        |       |
| • include                      | Boolean | No |  |        | true  |
| • require                      | Boolean | No | Only applicable if include = true  |        | false |
| •<br>fieldReasonForVisit       | List    | No |  |        |       |
| • include                      | Boolean | No |  |        | true  |
| • require                      | Boolean | No | Only applicable if include = true  |        | false |
| •<br>includeAup                | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login                   | false  |       |
| •<br>aupDisplay                | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. | ASLINK |       |
| •<br>requireAupAcceptance      | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                     | false  |       |
| •<br>enableGuestEmailWhitelist | Boolean | No | Allow guests with an e-mail address from selected domains                                      | false  |       |

Continued on next page

Table 13 – continued from previous page

|                                 |         |    |   |       |  |
|---------------------------------|---------|----|---|-------|--|
| •<br>guestEmailWhitelistDomains | List    | No | Self-registered guests whose e-mail address is in one of these domains will be allowed. Only valid if enableGuestEmailWhitelist = true    |       |  |
| •<br>enableGuestEmailBlacklist  | Boolean | No | Disallow guests with an e-mail address from selected domains  | false |  |
| •<br>guestEmailBlacklistDomains | List    | No | Self-registered guests whose e-mail address is in one of these domains will be disallowed. Only valid if enableGuestEmailBlacklist = true |       |  |
| •<br>requireGuestApproval       | Boolean | No | Require self-registered guests to be approved if true   | false |  |
| •<br>autoLoginSelfWait          | Boolean | No | Allow guests to login automatically from self-registration after sponsor's approval. No need to provide the credentials by guest to login | false |  |

Continued on next page

Table 13 – continued from previous page

|                                  |         |    |   |                         |  |
|----------------------------------|---------|----|---|-------------------------|--|
| •<br>autoLoginTimePeriod         | Integer | No | Waiting period for auto login until sponsor's approval. If time exceeds, guest has to login manually by providing the credentials. Default value is 5 minutes | 5                       |  |
| •<br>sendApprovalRequestTo       | Enum    | No | Specifies where approval requests are sent. Only valid if requireGuestApproval = true.  | SELECTEDEMAILADDRESSES  |  |
| •<br>approvalEmailAddresses      | String  | No | Only valid if requireGuestApproval = true and sendApprovalRequestTo = SELECTEDEMAILADDRESSES  |                         |  |
| •<br>postRegistrationRedirect    | Enum    | No | After the registration submission direct the guest user to one of the following pages. Only valid if requireGuestApproval = true.                             | SELFREGISTRATIONSUCCESS |  |
| •<br>postRegistrationRedirectUrl | String  | No | URL where guest user is redirected after registration. Only valid if requireGuestApproval = true and postRegistrationRedirect = URL                           |                         |  |

Continued on next page

Table 13 – continued from previous page

|                                       |         |    |  |       |  |
|---------------------------------------|---------|----|--|-------|--|
| •<br>credentialNotificationUsingEmail | Boolean | No | If true, send credential notification upon approval using email. Only valid if requireGuestApproval = true                               | false |  |
| •<br>credentialNotificationUsingSms   | Boolean | No | If true, send credential notification upon approval using SMS. Only valid if requireGuestApproval = true                                 | false |  |
| •<br>approveDenyLinksValidFor         | Integer | No | This attribute, along with approveDenyLinksTimeUnits, specifies how long the link can be used. Only valid if requireGuestApproval = true | 1440  |  |
| •<br>approveDenyLinksTimeUnits        | Enum    | No | This attribute, along with approveDenyLinksValidFor, specifies how long the link can be used. Only valid if requireGuestApproval = true. | DAYS  |  |

Continued on next page

Table 13 – continued from previous page

|   |         |    |   |       |  |
|---|---------|----|---|-------|--|
| <ul style="list-style-type: none"><li>• requireApproverToAuthenticate</li></ul> | Boolean | No | When self-registered guests require approval, an approval request is e-mailed to one or more sponsor users. If the Cisco ISE Administrator chooses to include an approval link in the e-mail, a sponsor user who clicks the link will be required to enter their username and password if this attribute is true. Only valid if requireGuestApproval = true | false |  |
|---|---------|----|---|-------|--|

Continued on next page



Table 13 – continued from previous page

|                             |         |    |   |      |  |
|-----------------------------|---------|----|---|------|--|
| •<br>sponsorPortalList      | List    | No | When self-registered guests require approval, an approval request is e-mailed to one or more sponsor users. If the Cisco ISE Administrator chooses to include an approval link in the e-mail, a sponsor user who clicks the link will be authenticated against the selected sponsor portals in the order specified. Only valid if requireGuestApproval = true. The array should contain the names of the selected portals |      |  |
| •<br>selfRegSuccessSettings | List    | No |   |      |  |
| •<br>includeUserName        | Boolean | No |   | true |  |
| •<br>includePassword        | Boolean | No |   | true |  |
| •<br>includeFirstName       | Boolean | No |   | true |  |
| •<br>includeLastName        | Boolean | No |   | true |  |

Continued on next page

Table 13 – continued from previous page

|                                |         |    |  |       |  |
|--------------------------------|---------|----|--|-------|--|
| • includeEmailAddr             | Boolean | No |  | true  |  |
| • includePhoneNo               | Boolean | No |  | true  |  |
| • includeCompany               | Boolean | No |  | true  |  |
| • includeLocation              | Boolean | No |  | true  |  |
| • includeSmsProvider           | Boolean | No |  | true  |  |
| • includePersonBeingVisited    | Boolean | No |  | true  |  |
| • includeReasonForVisit        | Boolean | No |  | true  |  |
| • allowGuestSendSelfUsingPrint | Boolean | No |  | false |  |
| • allowGuestSendSelfUsingEmail | Boolean | No |  | false |  |
| • allowGuestSendSelfUsingSms   | Boolean | No |  | false |  |
| • includeAup                   | Boolean | No |  | false |  |
| • aupOnPage                    | Boolean | No |  | false |  |
| • requireAupAcceptance         | Boolean | No |  | false |  |

Continued on next page

Table 13 – continued from previous page

|   |         |    |  |            |  |
|---|---------|----|--|------------|--|
| • requireAupScrolling                   | Boolean | No |  | false      |  |
| • allowGuestLoginFromSelfregSuccessPage | Boolean | No |  | false      |  |
| • aupSettings                           | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| • displayFrequency                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| • includeAup                            | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| • requireAupScrolling                   | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • useDiffAupForEmployees                | Boolean | No | Only valid if requireAupAcceptance = trueG   | false      |  |
| • skipAupForEmployees                   | Boolean | No | Only valid if requireAupAcceptance = true  | false      |  |
| • displayFrequencyIntervalDays          | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |

Continued on next page

Table 13 – continued from previous page

|                                   |         |    |  |       |  |
|-----------------------------------|---------|----|--|-------|--|
| • GuestChangePasswordSettings     | List    | No |  |       |  |
| • allowChangePasswdAtFirstLogin   | Boolean | No | Allow guest to change their own passwords                            | false |  |
| • guestDeviceRegistrationSettings | List    | No |  |       |  |
| • autoRegisterGuestDevices        | Boolean | No | Automatically register guest devices                                 | true  |  |
| • allowGuestsToRegisterDevices    | Boolean | No | Allow guests to register devices                                     | false |  |
| • byodSettings                    | List    | No | Configuration of BYOD Device Welcome, Registration and Success steps |       |  |
| • byodWelcomeSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration            |       |  |
| • enableBYOD                      | Boolean | No |  | true  |  |
| • enableGuestAccess               | Boolean | No |  | false |  |
| • requireMDM                      | Boolean | No |  | false |  |
| • includeAup                      | Boolean | No |  | true  |  |

Continued on next page

Table 13 – continued from previous page

|                                      |         |    |  |                 |                                      |
|--------------------------------------|---------|----|--|-----------------|--------------------------------------|
| •<br>aupDisplay                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. | ONPAGE          |                                      |
| •<br>requireAupAcceptance            | Boolean | No |  | false           |                                      |
| •<br>requireScrolling                | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true  | false           |                                      |
| •<br>byodRegistrationSettings        | List    | No | Configuration of BYOD endpoint Registration step configuration                                 |                 |                                      |
| •<br>showDeviceID                    | Boolean | No | Display Device ID field during registration  | true            |                                      |
| •<br>endPointIdentityGroupId         | String  | No | Identity group id for which endpoint belongs   |                 | aa13bb40-8bff-11e6-996c-525400b48521 |
| •<br>byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration                         |                 |                                      |
| •<br>successRedirect                 | Enum    | No | After an Authentication Success where should device be redirected.                             | AUTHSUCCESSPAGE |                                      |
| •<br>redirectUrl                     | String  | No | Target URL for redirection, used when successRedirect = URL                                    |                 |                                      |

Continued on next page

Table 13 – continued from previous page

|                              |         |    |  |                 |               |
|------------------------------|---------|----|--|-----------------|---------------|
| •<br>authSuccessSettings     | List    | No |  |                 |               |
| •<br>successRedirect         | Enum    | No | After an Authentication Success where should device be redirected. | AUTHSUCCESSPAGE |               |
| •<br>redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL        |                 | www.cisco.com |
| •<br>postLoginBannerSettings | List    | No |  |                 |               |
| •<br>includePostAccessBanner | Boolean | No | Include a Post-Login Banner page                                   | false           |               |
| •<br>supportInfoSettings     | List    | No | Portal Support Information Settings                                |                 |               |
| •<br>includeSupportInfoPage  | Boolean | No |  | false           |               |
| •<br>includeMacAddr          | Boolean | No |  | false           |               |
| •<br>includeIpAddress        | Boolean | No |  | false           |               |
| •<br>includeBrowserUserAgent | Boolean | No |  | false           |               |
| •<br>includePolicyServer     | Boolean | No |  | false           |               |
| •<br>includeFailureCode      | Boolean | No |  | false           |               |

Continued on next page

Table 13 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • emptyFieldDisplay      | Enum   | No  | Specifies how empty fields are handled on the Support Information Page.                                       |  | HIDE                                     |
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when emptyFieldDisplay = DISPLAY-WITHDEFAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 13 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page



Table 13 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | Guest Portal                   |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 13 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_self\_registered\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a self registered portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_self\_registered\_portal\_by\_id*

**update\_self\_registered\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a self registered portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_self\_registered\_portal\_by\_id*

**delete\_self\_registered\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a self registered portal by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_self\_registered\_portal\_by\_id*

**`get_self_registered_portals`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
*sortasc=None*, *sortdsc=None*, *headers=None*,  
*\*\*query\_parameters*)

This API allows the client to get all the self registered portals. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_self\_registered\_portals*

**`get_self_registered_portals_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the self registered portals. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_self_registered_portals_generator`

**create\_self\_registered\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a self registered portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDGUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_self\_registered\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the self registered portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## session\_directory

### class SessionDirectory

Identity Services Engine Session Directory API (version: 3.1.0).

Wraps the Identity Services Engine Session Directory API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_psg*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_sessions** (*headers=None*, *\*\*query\_parameters*)  
getSessions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_sessions\_for\_recovery** (*headers=None*, *\*\*query\_parameters*)  
getSessionsForRecovery.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_by\_ip\_address** (*headers=None, \*\*query\_parameters*)  
getSessionByIpAddress.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_by\_mac\_address** (*headers=None, \*\*query\_parameters*)  
getSessionByMacAddress.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_user_groups`** (*headers=None, \*\*query\_parameters*)  
`getUserGroups`.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_user_group_by_user_name`** (*headers=None, \*\*query\_parameters*)  
`getUserGroupByUserName`.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*headers=None, \*\*query\_parameters*)

Alias for `get_user_group_by_user_name`

## sponsor\_group

### **class SponsorGroup**

Identity Services Engine SponsorGroup API (version: 3.1.0).

Wraps the Identity Services Engine SponsorGroup API and exposes the API as native Python methods that return native Python objects.

Sponsor Group API allows the client to add, delete, update and search sponsor groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute | Type   | Required | Description                         | Default Values | Example Values                       |
|-----------|--------|----------|-------------------------------------|----------------|--------------------------------------|
| name      | String | Yes      | Resource Name                       |                | EmplALL_ACCOUNTS (default)oyees      |
| id        | String | No       | Resource UUID, mandatory for update |                | 9f1eca71-8c01-11e6-996c-525400b48521 |

Continued on next page

Table 14 – continued from previous page

|                             |         |    |                 |     |   |
|-----------------------------|---------|----|-----------------|-----|---|
| description                 | String  | No |                 |     | Sponsors assigned to this group can manage all guest user accounts. By default, users in the ALL_ACCOUNTS user identity group are members of this sponsor group |
| isEnabled                   | Boolean | No |                 |     | true  |
| isDefaultGroup              | Boolean | No |                 |     | true  |
| memberGroups                | List    | No |                 |     | ["ALL_ACCOUNTS (default)"]  |
| guestTypes                  | List    | No |                 |     | ["Contractor (default)", "Daily (default)", "Weekly (default)"]   |
| locations                   | List    | No |                 |     | ["San Jose"]  |
| autoNotification            | Boolean | No |                 |     | false   |
| managePermissions           | Enum    | No | Allowed values: |     | ALLACCOUNTS, GROUPACCOUNTS, OWNACCOUNTS   |
| createPermissions           | List    | No |                 |     |   |
| • canImportMultipleAccounts | Boolean | No |                 |     | true  |
| • importBatchSizeLimit      | Integer | No |                 | 200 |   |
| • canCreateRandomAccounts   | Boolean | No |                 |     | true  |
| • randomBatchSizeLimit      | Integer | No |                 | 200 |   |

Continued on next page

Table 14 – continued from previous page

|                             |         |     |  |  |       |
|-----------------------------|---------|-----|--|--|-------|
| • defaultUsernamePrefix     | String  | No  |  |  |       |
| • canSpecifyUsernamePrefix  | Boolean | No  |  |  | true  |
| • canSetFutureStartDate     | Boolean | No  |  |  | false |
| • startDateFutureLimitDays  | Integer | No  |  |  | 1     |
| otherPermissions            | List    | No  |  |  |       |
| • canUpdateGuestContactInfo | Boolean | No  |  |  | true  |
| • canViewGuestPasswords     | Boolean | No  |  |  | true  |
| • canSendSmsNotifications   | Boolean | No  |  |  | false |
| • canResetGuestPasswords    | Boolean | No  |  |  | true  |
| • canExtendGuestAccounts    | Boolean | No  |  |  | true  |
| • canDeleteGuestAccounts    | Boolean | No  |  |  | true  |
| • canSuspendGuestAccounts   | Boolean | Yes |  |  | true  |
| • requireSuspensionReason   | Boolean | No  |  |  | false |

Continued on next page

Table 14 – continued from previous page

|                                    |         |     |  |  |       |
|------------------------------------|---------|-----|--|--|-------|
| •<br>canReinstateSuspendedAccounts | Boolean | No  |  |  | true  |
| •<br>canApproveSelfregGuests       | Boolean | No  |  |  | true  |
| •<br>limitApprovalToSponsorsGuests | Boolean | Yes |  |  | false |
| •<br>canAccessViaRest              | Boolean | No  |  |  | false |

**get\_sponsor\_group\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsor group by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsor\_group\_by\_id*

**update\_sponsor\_group\_by\_id**(*id*, *auto\_notification=None*, *create\_permissions=None*, *description=None*, *guest\_types=None*, *is\_default\_group=None*, *is\_enabled=None*, *locations=None*, *manage\_permission=None*, *member\_groups=None*, *name=None*, *other\_permissions=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a sponsor group by ID.

#### Parameters

- **auto\_notification** (*boolean*) – autoNotification, property of the request body.
- **create\_permissions** (*object*) – createPermissions, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_types** (*list*) – guestTypes, property of the request body (list of strings).
- **id** (*basestring*) – id, property of the request body.
- **is\_default\_group** (*boolean*) – isDefaultGroup, property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **locations** (*list*) – locations, property of the request body (list of strings).
- **manage\_permission** (*string*) – managePermission, property of the request body.
- **member\_groups** (*list*) – memberGroups, property of the request body (list of strings).
- **name** (*string*) – name, property of the request body.
- **other\_permissions** (*object*) – otherPermissions, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, auto_notification=None, create_permissions=None, description=None,
             guest_types=None, is_default_group=None, is_enabled=None, locations=None,
             manage_permission=None, member_groups=None, name=None, other_permissions=None,
             headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_sponsor\_group\_by\_id*

**delete\_sponsor\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a sponsor group by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sponsor\_group\_by\_id*

**get\_sponsor\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsor groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .



- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sponsor\_group*

**get\_sponsor\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_group\_generator*

**create\_sponsor\_group** (*auto\_notification=None, create\_permissions=None, description=None, guest\_types=None, is\_default\_group=None, is\_enabled=None, locations=None, manage\_permission=None, member\_groups=None, name=None, other\_permissions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsor group.

### Parameters

- **auto\_notification** (*boolean*) – autoNotification, property of the request body.
- **create\_permissions** (*object*) – createPermissions, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_types** (*list*) – guestTypes, property of the request body (list of strings).
- **is\_default\_group** (*boolean*) – isDefaultGroup, property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **locations** (*list*) – locations, property of the request body (list of strings).
- **manage\_permission** (*string*) – managePermission, property of the request body.
- **member\_groups** (*list*) – memberGroups, property of the request body (list of strings).
- **name** (*string*) – name, property of the request body.

- **other\_permissions** (*object*) – otherPermissions, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*auto\_notification=None, create\_permissions=None, description=None, guest\_types=None, is\_default\_group=None, is\_enabled=None, locations=None, manage\_permission=None, member\_groups=None, name=None, other\_permissions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_sponsor\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- *MalformedRequest* – If the request body created is invalid.
- *ApiError* – If the Identity Services Engine cloud returns an error.

## sponsor\_group\_member

### class SponsorGroupMember

Identity Services Engine SponsorGroupMember API (version: 3.1.0).

Wraps the Identity Services Engine SponsorGroupMember API and exposes the API as native Python methods that return native Python objects.

Sponsor Group API allows the client to search the group members from different identity stores configured in the GUI.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description         | Example Values                       |
|-------------|--------|----------|---------------------|--------------------------------------|
| name        | String | Yes      | Resource Name       | ALL_ACCOUNTS (default)               |
| id          | String | No       | Resource UUID value | a176c430-8c01-11e6-996c-525400b48521 |
| description | String | No       |                     |                                      |
| dicType     | String | Yes      |                     |                                      |
| guid        | String | Yes      |                     |                                      |

**get\_sponsor\_group\_member** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor group members. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_group\_member*

**get\_sponsor\_group\_member\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor group members. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_group\_member\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor group member.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## sponsor\_portal

### class SponsorPortal

Identity Services Engine SponsorPortal API (version: 3.1.0).

Wraps the Identity Services Engine SponsorPortal API and exposes the API as native Python methods that return native Python objects.

Sponsor Portal API provides the ability to create, read, update, delete and search sponsor portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Default Values | Example Values   |
|-------------|--------|----------|-------------------------------------|----------------|--|
| name        | String | Yes      | Resource Name                       |                | Sponsor Portal (default)   |
| id          | String | No       | Resource UUID, mandatory for update |                | 04cd708b-feef-4c75-bf3e-2d2a9c302da2   |
| description | String | No       |                                     |                | Default portal used by sponsors to create and manage accounts for authorized visitors to securely access the network |

Continued on next page

Table 15 – continued from previous page

|                       |         |     |   |         |   |
|-----------------------|---------|-----|---|---------|---|
| portalTestUrl         | String  | No  | URL to bring up a test page for this portal   |         | <a href="https://{ise-ip}:8445/portal/PortalSetup.action?portalId=feef-4c75-bf3e-2d2a9c302da2">https://{ise-ip}:8445/portal/PortalSetup.action?portalId=feef-4c75-bf3e-2d2a9c302da2</a> |
| portalType            | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELF-REGGUEST, SPONSOR, SPONSORED, GUEST                            | SPONSOR |   |
| settings              | List    | No  | Defines all of the settings groups available for a portal   |         |   |
| • portalSettings      | List    | No  | The port, interface, certificate, and other basic settings of a portal  |         |   |
| • httpsPort           | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                               |         | 8445  |
| • allowedInterfaces   | Enum    | Yes | Interfaces that the portal will be reachable on.  |         | [ “eth0”, “bond0” ]   |
| • certificateGroupTag | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal                                     |         | Default Portal Certificate Group  |
| • fqdn                | String  | No  | The fully-qualified domain name (FQDN) that end-users will use to access this portal. Used only in Sponsor portal |         | Default Portal Certificate Group  |

Continued on next page



Table 15 – continued from previous page

|                                    |         |     |  |       |                                      |
|------------------------------------|---------|-----|--|-------|--------------------------------------|
| • authenticationMethod             | String  | Yes | Unique Id of the identity source sequence                                    |       | 92faba60-8c01-11e6-996c-525400b48521 |
| • idleTimeout                      | Integer | No  |  | 10    |                                      |
| • displayLang                      | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE                                |       | USEBROWSERLOCALE                     |
| • fallbackLanguage                 | String  | No  | Used when displayLang = USE-BROWSER-LOCALE                                   |       | English                              |
| • alwaysUsedLanguage               | String  | No  | Used when displayLang = ALWAYSUSE  |       | English                              |
| • availableSsids                   | List    | No  | Names of the SSIDs available for assignment to guest users by sponsors       |       |                                      |
| • loginPageSettings                | List    | No  | Portal Login Page settings groups follow                                     |       |                                      |
| • maxFailedAttemptsBeforeRateLimit | Integer | No  | Maximum failed login attempts before rate limiting                           | 5     |                                      |
| • timeBetweenLoginsDuringRateLimit | Integer | No  | Time between login attempts when rate limiting                               | 2     |                                      |
| • includeAup                       | Boolean | No  | Include an Acceptable Use Policy (AUP) that should be displayed during login | false |                                      |

Continued on next page

Table 15 – continued from previous page

|                                    |         |    |  |            |  |
|------------------------------------|---------|----|--|------------|--|
| •<br>aupDisplay                    | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | ASLINK     |  |
| •<br>requireAupAcceptance          | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                         | false      |  |
| •<br>aupSettings                   | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| •<br>displayFrequency              | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| •<br>includeAup                    | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| •<br>requireAupScrolling           | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| •<br>displayFrequencyIntervalDays  | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |
| •<br>sponsorChangePasswordSettings | List    | No |  |            |  |

Continued on next page

Table 15 – continued from previous page

|                           |         |    |   |       |      |
|---------------------------|---------|----|---|-------|------|
| • allowSponsorToChangePwd | Boolean | No | Allow sponsors to change their own passwords                            | false |      |
| • postLoginBannerSettings | List    | No |   |       |      |
| • includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |      |
| • supportInfoSettings     | List    | No | Portal Support Information Settings                                     |       |      |
| • includeSupportInfoPage  | Boolean | No |   | false |      |
| • includeMacAddr          | Boolean | No |   | false |      |
| • includeIpAddress        | Boolean | No |   | false |      |
| • includeBrowserUserAgent | Boolean | No |   | false |      |
| • includePolicyServer     | Boolean | No |   | false |      |
| • includeFailureCode      | Boolean | No |   | false |      |
| • emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |       | HIDE |

Continued on next page

Table 15 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 15 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 15 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | Guest Portal                   |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 15 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_sponsor\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsor portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsor\_portal\_by\_id*

**update\_sponsor\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a sponsor portal by ID.

#### Parameters

- **customizations** (*object*) – customizations, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_sponsor\_portal\_by\_id*

**delete\_sponsor\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a sponsor portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sponsor_portal_by_id`*

**`get_sponsor_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsor portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_portal*

**`get_sponsor_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_sponsor_portal_generator`

**create\_sponsor\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsor portal.

**Parameters**

- **customizations** (*object*) – customizations, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sponsor\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor portal.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## sponsored\_guest\_portal

### **class** SponsoredGuestPortal

Identity Services Engine SponsoredGuestPortal API (version: 3.1.0).

Wraps the Identity Services Engine SponsoredGuestPortal API and exposes the API as native Python methods that return native Python objects.

Sponsored Guest Portal API provides the ability to create, read, update, delete and search sponsored guest portals.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Required | Description  | Default Values  | Example Values |
|---------------|--------|----------|--|---|----------------|
| name          | String | Yes      | Resource Name  | Sponsored Guest Portal (default)  |                |
| id            | String | No       | Resource UUID, mandatory for update  | d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33  |                |
| description   | String | No       | Sponsors create guest accounts, and guests access the network using their assigned username and password |   |                |
| portalTestUrl | String | No       | URL to bring up a test page for this portal  | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portal=d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33">https://{ise-ip}:8443/portal/PortalSetup.action?portal=d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33</a> |                |
| portalType    | Enum   | Yes      | Allowed values: BYOD, HOTSPOTGUEST, MYDE-VICE, SELF-REGGUEST, SPONSOR, SPONSOREDGGUEST                   | SPONSOREDGGUEST   |                |
| settings      | List   | No       | Defines all of the settings groups available for a portal  |   |                |

Continued on next page

Table 16 – continued from previous page

|                                |         |     |  |                                      |  |
|--------------------------------|---------|-----|--|--------------------------------------|--|
| • portalSettings               | List    | No  | The port, interface, certificate, and other basic settings of a portal   |                                      |  |
| • httpsPort                    | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                                      | 8443                                 |  |
| • allowedInterfaces            | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 | [ “eth0”, “bond0” ]                  |  |
| • certificateGroupTag          | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  | Default Portal Certificate Group     |  |
| • authenticationMethod         | String  | Yes | Unique Id of the identity source sequence  | 92faba60-8c01-11e6-996c-525400b48521 |  |
| • assignedGuestTypeForEmployee | String  | Yes | Unique Id of a guest type. Employees using this portal as a guest inherit login options from the guest type              | Contractor (default)                 |  |
| • displayLang                  | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  | USEBROWSERLOCALE                     |  |
| • fallbackLanguage             | String  | No  | Used when displayLang = USE-BROWSER-LOCALE   | English                              |  |

Continued on next page

Table 16 – continued from previous page

|                                       |         |    |   |         |  |
|---------------------------------------|---------|----|---|---------|--|
| •<br>alwaysUsedLanguage               | String  | No | Used when displayLang = ALWAYSUSE   | English |  |
| •<br>loginPageSettings                | List    | No | Portal Login Page settings groups follow  |         |  |
| •<br>maxFailedAttemptsBeforeRateLimit | Integer | No | Maximum failed login attempts before rate limiting  | 5       |  |
| •<br>timeBetweenLoginsDuringRateLimit | Integer | No | Time between login attempts when rate limiting  | 2       |  |
| •<br>includeAup                       | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login  | false   |  |
| •<br>aupDisplay                       | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ASLINK  |  |
| •<br>requireAupAcceptance             | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true  | false   |  |
| •<br>requireAccessCode                | Boolean | No | Require the portal user to enter an access code   | false   |  |
| •<br>accessCode                       | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true)                                  |         |  |

Continued on next page

Table 16 – continued from previous page

|                              |         |    |  |            |  |
|------------------------------|---------|----|--|------------|--|
| • allowGuestToCreateAccounts | Boolean | No | false  |            |  |
| • allowGuestToChangePassword | Boolean | No | Require the portal user to enter an access code  | false      |  |
| • aupSettings                | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal  |            |  |
| • displayFrequency           | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed Values: FIRSTLOGIN, EVERYLOGIN, RECURRING | FIRSTLOGIN |  |
| • includeAup                 | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| • requireAupScrolling        | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true   | false      |  |
| • useDiffAupForEmployees     | Boolean | No | Only valid if requireAupAcceptance = trueG   | false      |  |
| • skipAupForEmployees        | Boolean | No | Only valid if requireAupAcceptance = true  | false      |  |

Continued on next page



Table 16 – continued from previous page

|                                   |         |    |  |       |  |
|-----------------------------------|---------|----|--|-------|--|
| • displayFrequencyIntervalDays    | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring) | 7     |  |
| • GuestChangePasswordSettings     | List    | No |  |       |  |
| • allowChangePasswdAtFirstLogin   | Boolean | No | Allow guest to change their own passwords                                    | false |  |
| • guestDeviceRegistrationSettings | List    | No |  |       |  |
| • autoRegisterGuestDevices        | Boolean | No | Automatically register guest devices   | true  |  |
| • allowGuestsToRegisterDevices    | Boolean | No | Allow guests to register devices   | false |  |
| • byodSettings                    | List    | No | Configuration of BYOD Device Welcome, Registration and Success steps         |       |  |
| • byodWelcomeSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration                    |       |  |
| • enableBYOD                      | Boolean | No | true   |       |  |
| • enableGuestAccess               | Boolean | No | false  |       |  |
| • requireMDM                      | Boolean | No | false  |       |  |

Continued on next page

Table 16 – continued from previous page

|                                   |         |    |   |                                      |  |
|-----------------------------------|---------|----|---|--------------------------------------|--|
| • includeAup                      | Boolean | No | true  |                                      |  |
| • aupDisplay                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ONPAGE                               |  |
| • requireAupAcceptance            | Boolean | No | false   |                                      |  |
| • requireScrolling                | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true                                 | false                                |  |
| • byodRegistrationSettings        | List    | No | Configuration of BYOD endpoint Registration step configuration  |                                      |  |
| • showDeviceID                    | Boolean | No | Display Device ID field during registration   | true                                 |  |
| • endPointIdentityGroupId         | String  | No | Identity group id for which endpoint belongs  | aa13bb40-8bff-11e6-996c-525400b48521 |  |
| • byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration  |                                      |  |

Continued on next page

Table 16 – continued from previous page

|                           |         |    |   |                 |  |
|---------------------------|---------|----|---|-----------------|--|
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   |                 |  |
| • authSuccessSettings     | List    | No |   |                 |  |
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   | www.cisco.com   |  |
| • postLoginBannerSettings | List    | No |   |                 |  |
| • includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false           |  |
| • supportInfoSettings     | List    | No | Portal Support Information Settings   |                 |  |
| • includeSupportInfoPage  | Boolean | No | false   |                 |  |

Continued on next page

Table 16 – continued from previous page

|                           |         |    |   |      |  |
|---------------------------|---------|----|---|------|--|
| • includeMacAddr          | Boolean | No | false   |      |  |
| • includeIpAddress        | Boolean | No | false   |      |  |
| • includeBrowserUserAgent | Boolean | No | false   |      |  |
| • includePolicyServer     | Boolean | No | false   |      |  |
| • includeFailureCode      | Boolean | No | false   |      |  |
| • emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. Allowed values: HIDE, DISPLAY-WITHNO-VALUE, DISPLAYWITH-DEFAULT-VALUE | HIDE |  |
| • defaultEmptyFieldValue  | String  | No | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDEFAULT-VALUE                                |      |  |
| customizations            | List    | No | Defines all of the Portal Customizations available  |      |  |
| • portalTheme             | List    | No | Defines the configuration for portal theme  |      |  |

Continued on next page

Table 16 – continued from previous page

|                         |        |     |   |  |  |
|-------------------------|--------|-----|---|--|--|
| • id                    | String | No  | The unique internal identifier of the portal theme  | 9eb421c0-8c01-11e6-996c-525400b48521     |  |
| • name                  | String | Yes | The system- or user-assigned name of the portal theme   | Default Blue theme                       |  |
| • themeData             | String | No  | A CSS file, represented as a Base64-encoded byte array  | Base 64 encoded string of Theme CSS file |  |
| • portalTweakSettings   | List   | No  | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |  |
| • bannerColor           | String | No  | Hex value of color  | #0000FF                                  |  |
| • bannerTextColor       | String | No  | Banner Text color code from GUI   |  |  |
| • pageBackgroundColor   | String | No  | Color code from GUI   |  |  |
| • pageLabelAndTextColor | String | No  | Label and Text color from GUI   |  |  |

Continued on next page

Table 16 – continued from previous page

|                        |        |    |   |                                |  |
|------------------------|--------|----|---|--------------------------------|--|
| • language             | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported |                                |  |
| • viewLanguage         | String | No | English   |                                |  |
| • globalCustomizations | List   | No | Represent the portal Global customizations  |                                |  |
| • bannerTitle          | String | No | Guest Portal  |                                |  |
| • contactText          | String | No | Contact Support   |                                |  |
| • footerElement        | String | No | Footer Element  |                                |  |
| • mobileLogoImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array   | base 64 encoded value of image |  |
| • desktopLogoImage     | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array   | base 64 encoded value of image |  |
| • bannerImage          | Image  | No |   |                                |  |

Continued on next page

Table 16 – continued from previous page

|                      |        |     |   |                                |  |
|----------------------|--------|-----|---|--------------------------------|--|
| • data               | String | No  | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • backgroundImage    | Image  | No  |   |                                |  |
| • data               | String | No  | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |                                |  |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |                                |  |
| • key                | String | Yes | ui_contact_ip_address_label                                   |                                |  |
| • value              | String | Yes | SVAgYWRkcmVzczo=  |                                |  |

**get\_sponsored\_guest\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsored guest portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsored\_guest\_portal\_by\_id*

**update\_sponsored\_guest\_portal\_by\_id** (*id*, *customizations=None*, *description=None*,  
*name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a sponsored guest portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.



- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_sponsored\_guest\_portal\_by\_id*

**delete\_sponsored\_guest\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a sponsored guest portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_sponsored\_guest\_portal\_by\_id*

**get\_sponsored\_guest\_portals** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsored guest portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsored\_guest\_portals*

**get\_sponsored\_guest\_portals\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsored guest portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sponsored\_guest\_portals\_generator*

**create\_sponsored\_guest\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsored guest portal.

### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDGUEST, property of the request body.

- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_sponsored\_guest\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsored guest portal.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## support\_bundle\_download

### class SupportBundleDownload

Identity Services Engine SupportBundleDownload API (version: 3.1.0).

Wraps the Identity Services Engine SupportBundleDownload API and exposes the API as native Python methods that return native Python objects.

Support Bundle Download API allows client to download support bundles provided those are generated and available in the default location.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description  | Example Values |
|-------------|--------|----------|--|----------------|
| name        | String | Yes      | Resource Name  |                |
| id          | String | No       | Resource UUID, mandatory for update                              |                |
| description | String | No       |  |                |
| fileName    | String | Yes      | File name along with path from where file needs to be downloaded | filename       |

**download\_support\_bundle** (*file\_name=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to upload a support bundle.

#### Parameters

- **file\_name** (*string*) – fileName, property of the request body.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

**download** (*file\_name=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *download\_support\_bundle*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the support bundle download.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## support\_bundle\_status

### class SupportBundleStatus

Identity Services Engine SupportBundleStatus API (version: 3.1.0).

Wraps the Identity Services Engine SupportBundleStatus API and exposes the API as native Python methods that return native Python objects.

Support Bundle Status API allows clients to query status of a triggered support bundle.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| At-tribute   | Type    | Re-quired | Description                         | Example Values  |
|--------------|---------|-----------|-------------------------------------|---|
| name         | String  | Yes       | Resource Name                       | ciscoise  |
| id           | String  | No        | Resource UUID, mandatory for update | ciscoise  |
| descrip-tion | String  | No        |                                     | Support Bundle Status api                                     |
| file-Name    | String  | No        |                                     | ise-support-bundle-pk-ciscoise-admin-04-09-2021-15-07.tar.gpg |
| fileSize     | Integer | No        |                                     | 1080924274  |
| host-Name    | String  | No        |                                     | ciscoise  |
| mes-sage     | String  | No        |                                     | Support Bundle generation completed                           |
| start-Time   | String  | No        |                                     | Fri Apr 09 15:07:55 IST 2021                                  |
| status       | String  | No        |                                     | complete  |

**get\_support\_bundle\_status\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a support bundle status by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_support_bundle_status_by_id`*

**`get_support_bundle_status`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the support bundle status.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_support_bundle_status`*

**`get_support_bundle_status_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the support bundle status.



**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_support\_bundle\_status\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)  
This API helps to retrieve the version information related to the support bundle status.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

## support\_bundle\_trigger\_configuration

### **class SupportBundleTriggerConfiguration**

Identity Services Engine SupportBundleTriggerConfiguration API (version: 3.1.0).

Wraps the Identity Services Engine SupportBundleTriggerConfiguration API and exposes the API as native Python methods that return native Python objects.

Support Bundle Trigger API allows clients to trigger support bundle provided the log settings are given using which the support needs to be generated.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute            | Type    | Required | Description  | Default Values                       |
|----------------------|---------|----------|--|--------------------------------------|
| name                 | String  | Yes      | Resource Name  | supportBundle                        |
| id                   | String  | No       | Resource UUID, mandatory for update                                  | 1af3d6e2-cc3b-4603-b80f-6827768335ab |
| description          | String  | No       | Support Bundle Generation  |                                      |
| hostName             | String  | Yes      | This parameter is hostName only, xxxx of xxxx.yyy.zz                 | sampleHost                           |
| supportBundleOptions | List    | Yes      |  |                                      |
| • includeConfigDB    | Boolean | Yes      | Set to include Config DB in Support Bundle                           | false                                |
| • includeDebugLogs   | Boolean | Yes      | Set to include Debug logs in Support Bundle                          | false                                |
| • includeLocalLogs   | Boolean | Yes      | Set to include Local logs in Support Bundle                          | false                                |
| • includeCoreFiles   | Boolean | Yes      | Set to include Core files in Support Bundle                          | false                                |
| • includeSystemLogs  | Boolean | Yes      | Set to include System logs in Support Bundle                         | false                                |
| • mntLogs            | Boolean | Yes      | Set to include Monitoring and troubleshooting logs in Support Bundle | false                                |
| • policyXml          | Boolean | Yes      | Set to include Policy XML in Support Bundle                          | false                                |
| • fromDate           | Date    | No       | Date from where support bundle should include the logs               | 04/21/2019                           |
| • toDate             | Date    | No       | Date upto where support bundle should include the logs               | 04/22/2019                           |

**create\_support\_bundle** (*description=None, host\_name=None, name=None, support\_bundle\_include\_options=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a support bundle trigger configuration.

### Parameters

- **description** (*string*) – description, property of the request body.
- **host\_name** (*string*) – This parameter is hostName only, xxxx of xxxx.yyy.zz, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **support\_bundle\_include\_options** (*object*) – supportBundleIncludeOptions, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, host\_name=None, name=None, support\_bundle\_include\_options=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_support\_bundle*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the support bundle trigger configuration.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## `sync_ise_node`

### **class SyncIseNode**

Identity Services Engine Sync ISE Node API (version: 3.1.0).

Wraps the Identity Services Engine Sync ISE Node API and exposes the API as native Python methods that return native Python objects.

APIs for the configuration, administration and monitoring of the nodes in an ISE cluster deployment.

**`sync_node`** (*hostname=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Performing a manual sync will involve a reload of the target node, but not the primary PAN. There might be situations where if the node has been out of sync for a long time, it may not be possible to recover via a manual sync.

**Parameters**

- **`hostname`** (*string*) – hostname, property of the request body. Constraints: maxLength set to 64 and minLength set to 1.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## system\_health

### class SystemHealth

Identity Services Engine System Health API (version: 3.1.0).

Wraps the Identity Services Engine System Health API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_healths** (*headers=None*, *\*\*query\_parameters*)  
getHealths.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_performances** (*headers=None*, *\*\*query\_parameters*)  
getPerformances.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## system\_certificate

### class SystemCertificate

Identity Services Engine SystemCertificate API (version: 3.1.0).

Wraps the Identity Services Engine SystemCertificate API and exposes the API as native Python methods that return native Python objects.

System Certificate API provides the ability to create certificates like SAML, pxGrid.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type    | Required | Description                         | Example Values                   |
|---|---------|----------|-------------------------------------|----------------------------------|
| name  | String  | Yes      | Resource Name                       |                                  |
| id  | String  | No       | Resource UUID, mandatory for update |                                  |
| description   | String  | No       |                                     | Support Bundle Status api        |
| nodeId  | String  | Yes      | NodeId of Cisco ISE application     | ISE-01                           |
| localCertStub   | List    | Yes      | Inputs for certificate creation     |                                  |
| <ul style="list-style-type: none"> <li>subjectStub</li> </ul>               | List    | No       | Subject data of certificate         |                                  |
| <ul style="list-style-type: none"> <li>commonName</li> </ul>                | String  | No       | Common Name                         | \$FQDN\$                         |
| <ul style="list-style-type: none"> <li>organizationalUnitName</li> </ul>    | String  | No       | Organizational Unit Name            | Cisco-SAMLCert                   |
| <ul style="list-style-type: none"> <li>organizationName</li> </ul>          | String  | No       | Organizational Name                 | Cisco                            |
| <ul style="list-style-type: none"> <li>localityName</li> </ul>              | String  | No       | Locality Name                       | City                             |
| <ul style="list-style-type: none"> <li>stateOrProvinceName</li> </ul>       | String  | No       | State or Province Name              | State                            |
| <ul style="list-style-type: none"> <li>countryName</li> </ul>               | String  | No       | Country Name                        | Country                          |
| <ul style="list-style-type: none"> <li>keyType</li> </ul>                   | String  | Yes      | Key Type                            | RSA OR ECDSA                     |
| <ul style="list-style-type: none"> <li>keyLength</li> </ul>                 | String  | Yes      | Key Length                          | 512 OR 1024 OR 2048 OR 4096      |
| <ul style="list-style-type: none"> <li>digest</li> </ul>                    | String  | Yes      | Digest                              | SHA-256 OR SHA-384 OR SHA-512    |
| <ul style="list-style-type: none"> <li>expirationTTL</li> </ul>             | Integer | Yes      | Expiration Time to Live (TTL)       | 2                                |
| <ul style="list-style-type: none"> <li>selectedExpirationTTLUnit</li> </ul> | String  | Yes      | Selected Expiration TTL Unit        | days OR weeks OR months OR years |
| <ul style="list-style-type: none"> <li>groupTagDD</li> </ul>                | String  | No       | Group Tag DD                        | add-group-tag                    |
| <b>Chapter 1. The User Guide</b>  |         |          |                                     |                                  |
| <ul style="list-style-type: none"> <li>samlCertificate</li> </ul>           | String  | No       | SAML Certificate                    | on OR off                        |



**create\_system\_certificate** (*ers\_local\_cert\_stub=None, node\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a system certificate.

#### Parameters

- **ers\_local\_cert\_stub** (*object*) – Inputs for certificate creation, property of the request body.
- **node\_id** (*string*) – NodeId of Cisco ISE application, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*ers\_local\_cert\_stub=None, node\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_system\_certificate*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the system certificate.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## **tacacs\_command\_sets**

### **class TacacsCommandSets**

Identity Services Engine TACACSCCommandSets API (version: 3.1.0).

Wraps the Identity Services Engine TACACSCCommandSets API and exposes the API as native Python methods that return native Python objects.

TACACS Command Sets API allows the client to add, delete, update, search and perform actions on TACACS command sets.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute       | Type    | Required | Description  | Default Values | Example Values  |
|-----------------|---------|----------|--|----------------|---|
| name            | String  | Yes      | Resource Name  |                | DenyAllCommands   |
| id              | String  | No       | Resource UUID, mandatory for update  |                | 0cef7990-6120-11ea-bffb-7a82c56e81f0                                    |
| description     | String  | No       |  |                | Default Command Set   |
| permitUnmatched | Boolean | No       |  | false          |   |
| commands        | List    | No       | Holds list of Commands   |                |   |
| • commandList   | List    | No       | Array of dictionaries describing various attributes with the properties: <ul style="list-style-type: none"> <li>- grant (Enum. Allowed values: PERMIT, DENY, DENY_ALWAYS),</li> <li>- command (String),</li> <li>- arguments (String)</li> </ul> |                | [ { "grant" : "PERMIT", "command" : "create", "arguments" : "value" } ] |

**get\_tacacs\_command\_sets\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS command sets by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_by\_name*

**get\_tacacs\_command\_sets\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS command sets by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_by\_id*

**update\_tacacs\_command\_sets\_by\_id** (*id*, *commands=None*, *description=None*,  
*name=None*, *permit\_unmatched=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update TACACS command sets.

#### Parameters

- **commands** (*object*) – commands, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **permit\_unmatched** (*boolean*) – permitUnmatched, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.

- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *commands=None*, *description=None*, *name=None*, *permit\_unmatched=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_tacacs\_command\_sets\_by\_id*

**delete\_tacacs\_command\_sets\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes TACACS command sets.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_tacacs\_command\_sets\_by\_id*

**get\_tacacs\_command\_sets** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS command sets.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets*

**get\_tacacs\_command\_sets\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS command sets.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_generator*

**create\_tacacs\_command\_sets** (*commands=None, description=None, name=None, permit\_unmatched=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates TACACS command sets.

**Parameters**

- **commands** (*object*) – commands, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **permit\_unmatched** (*boolean*) – permitUnmatched, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*commands=None, description=None, name=None, permit\_unmatched=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_tacacs\_command\_sets*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS command sets.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**tacacs\_external\_servers****class TacacsExternalServers**

Identity Services Engine TACACSExternalServers API (version: 3.1.0).

Wraps the Identity Services Engine TACACSExternalServers API and exposes the API as native Python methods that return native Python objects.

TACACS External Servers API allows the client to add, delete, update, search and perform actions on TACACS external servers.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

**Resource Definition**



| Attribute      | Type    | Re-<br>quired | Description                         | Default<br>Values | Example Values                       |
|----------------|---------|---------------|-------------------------------------|-------------------|--------------------------------------|
| name           | String  | Yes           | Resource Name                       |                   | TacacsExternalServer1                |
| id             | String  | No            | Resource UUID, mandatory for update |                   | 1af3d6e2-cc3b-4603-b80f-6827768335ab |
| description    | String  | No            |                                     |                   | TacacsExternalServer-ForSDK          |
| hostIP         | String  | Yes           | The server IPV4 address             |                   | 1.1.1.1                              |
| connectionPort | Integer | No            | The port to connect the server      | 49                |                                      |
| single-Connect | Boolean | No            | Define the use of single connection | true              |                                      |
| sharedSecret   | String  | Yes           | The server shared secret            |                   | SharedSecret                         |
| timeout        | Integer | No            | The server timeout                  | 20                |                                      |

**get\_tacacs\_external\_servers\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS external servers by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers\_by\_name*

**get\_tacacs\_external\_servers\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS external servers by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers\_by\_id*

**update\_tacacs\_external\_servers\_by\_id** (*id*, *connection\_port=None*, *description=None*, *host\_ip=None*, *name=None*, *shared\_secret=None*, *single\_connect=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update TACACS external servers.

#### Parameters

- **connection\_port** (*integer*) – The port to connect the server, property of the request body.
- **description** (*string*) – description, property of the request body.
- **host\_ip** (*string*) – The server IPV4 address, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **shared\_secret** (*string*) – The server shared secret, property of the request body.
- **single\_connect** (*boolean*) – Define the use of single connection, property of the request body.
- **timeout** (*integer*) – The server timeout, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *connection\_port=None*, *description=None*, *host\_ip=None*, *name=None*, *shared\_secret=None*, *single\_connect=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_tacacs\_external\_servers\_by\_id*

**delete\_tacacs\_external\_servers\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes TACACS external servers.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_tacacs\_external\_servers\_by\_id*

**get\_tacacs\_external\_servers** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)  
 This API allows the client to get all the TACACS external servers.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_tacacs\_external\_servers*

**get\_tacacs\_external\_servers\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS external servers.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers\_generator*

**create\_tacacs\_external\_servers** (*connection\_port=None, description=None, host\_ip=None, name=None, shared\_secret=None, single\_connect=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates TACACS external servers.

#### Parameters

- **connection\_port** (*integer*) – The port to connect the server, property of the request body.
- **description** (*string*) – description, property of the request body.
- **host\_ip** (*string*) – The server IPV4 address, property of the request body.
- **name** (*string*) – name, property of the request body.
- **shared\_secret** (*string*) – The server shared secret, property of the request body.
- **single\_connect** (*boolean*) – Define the use of single connection, property of the request body.
- **timeout** (*integer*) – The server timeout, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*connection\_port=None, description=None, host\_ip=None, name=None, shared\_secret=None, single\_connect=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for [create\\_tacacs\\_external\\_servers](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS external servers.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## tacacs\_profile

### class TacacsProfile

Identity Services Engine TACACSPROFILE API (version: 3.1.0).

Wraps the Identity Services Engine TACACSPROFILE API and exposes the API as native Python methods that return native Python objects.

TACACS Profile API allows the client to add, delete, update, search and perform actions on TACACS profile.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute              | Type   | Required | Description  | Example Values  |
|------------------------|--------|----------|--|---|
| name                   | String | Yes      | Resource Name  | Default Shell Profile   |
| id                     | String | No       | Resource UUID, mandatory for update  | 93d7ee70-92b5-11eb-a39d-96858bc78604                              |
| description            | String | No       |  | Default Shell Profile   |
| sessionAttributes      | List   | No       | Holds list of session attributes. View type for GUI is Shell by default  |   |
| • sessionAttributeList | List   | No       | Array of dictionaries describing various attributes with the properties: - type (Enum. Allowed values: MANDATORY, OPTIONAL), - name (String), - value (String) | [ { "type" : "MANDATORY", "name" : "attr1", "value" : "value" } ] |

**get\_tacacs\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS profile by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_profile\_by\_name*

**get\_tacacs\_profile\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_profile\_by\_id*

**update\_tacacs\_profile\_by\_id**(*id*, *description=None*, *name=None*, *session\_attributes=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a TACACS profile.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **session\_attributes** (*object*) – Holds list of session attributes. View type for GUI is Shell by default, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *description=None*, *name=None*, *session\_attributes=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for `update_tacacs_profile_by_id`

**`delete_tacacs_profile_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes a TACACS profile.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for `delete_tacacs_profile_by_id`

**`get_tacacs_profile`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)  
 This API allows the client to get all the TACACS profiles.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_profile*

**get\_tacacs\_profile\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS profiles.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_profile\_generator*

**create\_tacacs\_profile** (*description=None, name=None, session\_attributes=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a TACACS profile.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **session\_attributes** (*object*) – Holds list of session attributes. View type for GUI is Shell by default, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, session\_attributes=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_tacacs\_profile*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## **tacacs\_server\_sequence**

### **class TacacsServerSequence**

Identity Services Engine TacacsServerSequence API (version: 3.1.0).

Wraps the Identity Services Engine TacacsServerSequence API and exposes the API as native Python methods that return native Python objects.

TACACS Server Sequence API allows the client to add, delete, update, search and perform actions on TACACS server sequence.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute        | Type    | Required | Description  | Default Values | Example Values                              |
|------------------|---------|----------|--|----------------|---|
| name             | String  | Yes      | Resource Name  |                | TacacsServerSequence1                       |
| id               | String  | No       | Resource UUID, mandatory for update  |                | 1af3d6e2-cc3b-4603-b80f-6827768335ab        |
| description      | String  | No       |  |                | TacacsServerSequenceForSDK                  |
| serverList       | String  | Yes      | The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication |                | TacacsExternalServer1,TacacsExternalServer2 |
| localAccounting  | Boolean | No       |  | false          |   |
| remoteAccounting | Boolean | No       |  | true           |   |
| prefixStrip      | Boolean | No       | Define if a delimiter will be used for prefix strip  | false          |   |
| suffixStrip      | Boolean | No       | Define if a delimiter will be used for suffix strip  | false          |   |
| prefixDelimiter  | String  | No       | The delimiter that will be used for prefix strip   |                |   |
| suffixDelimiter  | String  | No       | The delimiter that will be used for suffix strip   | @              |   |

**get\_tacacs\_server\_sequence\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS server sequence by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_tacacs_server_sequence_by_name`*

**`get_tacacs_server_sequence_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS server sequence by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_tacacs_server_sequence_by_id`*

**`update_tacacs_server_sequence_by_id`** (*id*, *description=None*, *local\_accounting=None*, *name=None*, *prefix\_delimiter=None*, *prefix\_strip=None*, *remote\_accounting=None*, *server\_list=None*, *suffix\_delimiter=None*, *suffix\_strip=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a TACACS server sequence.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.

- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_delimiter** (*string*) – The delimiter that will be used for prefix strip, property of the request body.
- **prefix\_strip** (*boolean*) – Define if a delimiter will be used for prefix strip, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **server\_list** (*string*) – The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication, property of the request body.
- **suffix\_delimiter** (*string*) – The delimiter that will be used for suffix strip, property of the request body.
- **suffix\_strip** (*boolean*) – Define if a delimiter will be used for suffix strip, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, description=None, local_accounting=None, name=None, prefix_delimiter=None,
              prefix_strip=None, remote_accounting=None, server_list=None, suffix_delimiter=None,
              suffix_strip=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *update\_tacacs\_server\_sequence\_by\_id*

```
delete_tacacs_server_sequence_by_id (id, headers=None, **query_parameters)
```

This API deletes a TACACS server sequence.

### Parameters

- **id** (*basestring*) – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_tacacs\_server\_sequence\_by\_id*

**get\_tacacs\_server\_sequence** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the TACACS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_server\_sequence*

**get\_tacacs\_server\_sequence\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_server\_sequence\_generator*

**create\_tacacs\_server\_sequence** (*description=None, local\_accounting=None, name=None, prefix\_delimiter=None, prefix\_strip=None, remote\_accounting=None, server\_list=None, suffix\_delimiter=None, suffix\_strip=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a TACACS server sequence.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_delimiter** (*string*) – The delimiter that will be used for prefix strip, property of the request body.
- **prefix\_strip** (*boolean*) – Define if a delimiter will be used for prefix strip, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.

- **server\_list** (*string*) – The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication, property of the request body.
- **suffix\_delimiter** (*string*) – The delimiter that will be used for suffix strip, property of the request body.
- **suffix\_strip** (*boolean*) – Define if a delimiter will be used for suffix strip, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (description=None, local_accounting=None, name=None, prefix_delimiter=None, prefix_strip=None, remote_accounting=None, server_list=None, suffix_delimiter=None, suffix_strip=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *create\_tacacs\_server\_sequence*

```
get_version (headers=None, **query_parameters)
```

This API helps to retrieve the version information related to the TACACS server sequence.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## telemetry\_information

### class TelemetryInformation

Identity Services Engine TelemetryInformation API (version: 3.1.0).

Wraps the Identity Services Engine TelemetryInformation API and exposes the API as native Python methods that return native Python objects.

Telemetry Information API allows clients to get telemetry configuration information.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute    | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       |                                      |
| id           | String | No        | Resource UUID, mandatory for update | ed7176fb-3faf-4060-845e-d5fa5236bd6e |
| description  | String | No        |                                     |                                      |
| status       | String | No        |                                     | SCHEnable                            |
| deploymentId | String | No        |                                     | ed7176fb-3faf-4060-845e-d5fa5236bd6e |
| udiSN        | String | No        |                                     | CH2MKIEGBGO                          |

**get\_telemetry\_info\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get telemetry information by ID.

#### Parameters

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_telemetry\_info\_by\_id*

**`get_telemetry_information`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the telemetry information. Filter: [deploymentId] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_telemetry_information`*

**`get_telemetry_information_generator`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the telemetry information. Filter: [deploymentId] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *`get_telemetry_information_generator`*

**`get_version`** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the telemetry information.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## trust\_sec\_configuration

**class TrustSecConfiguration**

Identity Services Engine TrustSec Configuration API (version: 3.1.0).

Wraps the Identity Services Engine TrustSec Configuration API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

**## Environment Variables** This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

**## Collection Variables** This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_security\_groups** (*headers=None*, *\*\*query\_parameters*)  
getSecurityGroups.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None*, *\*\*query\_parameters*)  
Alias for *get\_security\_groups*

**get\_security\_group\_acls** (*headers=None*, *\*\*query\_parameters*)  
getSecurityGroupAcls.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_egress_policies`** (*headers=None, \*\*query\_parameters*)  
`getEgressPolicies.`

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_egress_matrices`** (*headers=None, \*\*query\_parameters*)  
`getEgressMatrices.`

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*



**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**trust\_sec\_sxp****class TrustSecSxp**

Identity Services Engine TrustSec SXP API (version: 3.1.0).

Wraps the Identity Services Engine TrustSec SXP API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_bindings** (*headers=None*, *\*\*query\_parameters*)  
getBindings.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## version\_and\_patch

### class VersionAndPatch

Identity Services Engine VersionAndPatch API (version: 3.1.0).

Wraps the Identity Services Engine VersionAndPatch API and exposes the API as native Python methods that return native Python objects.

Version and Patch API is used to provide the Cisco ISE version on which the Cisco ISE cluster is running, and a comma-separated list of the patches that are installed. The highest numbered patch is the patch that the cluster is running on.

**get\_ise\_version\_and\_patch** (*headers=None, \*\*query\_parameters*)

This API allows the client to get Cisco ISE version and patch information.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_ise\_version\_and\_patch*

## version\_info

### class VersionInfo

Identity Services Engine VersionInfo API (version: 3.1.0).

Wraps the Identity Services Engine VersionInfo API and exposes the API as native Python methods that return native Python objects.

Version and Patch API is used to provide the Cisco ISE version on which the Cisco ISE cluster is running, and a comma-separated list of the patches that are installed. The highest numbered patch is the patch that the cluster is running on.

**get\_version\_info** (*resource, headers=None, \*\*query\_parameters*)

Get all VersionInfo.

#### Parameters

- **resource** (*basestring*) – resource path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## endpoint

**class Endpoint**

Identity Services Engine endpoint API (version: 3.1.0).

Wraps the Identity Services Engine endpoint API and exposes the API as native Python methods that return native Python objects.

Endpoint API allows the client to add, delete, update, search, register and de-register endpoints. Please note that each API description shows whether the API is supported in bulk operation. The Bulk section is showing only 'create' bulk operation however, all other operation which are bulk supported can be used in same way.

**Revision History**

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Version | Cisco<br>ISE<br>Version | Description                 | Revision<br>Modifica-<br>tion |  |
|-------------------------|--------------------------|-------------------------|-----------------------------|-------------------------------|--|
|                         |                          |                         |                             | Attribute                     | Description  |
| 0                       | 1.0                      | 1.3                     | Initial Cisco ISE Version   |                               |  |
| 1                       | 1.1                      | 2.1                     | Cisco ISE 2.1 model changes | custom-Attributes             | Added custom attributes for the user to include custom attributes when adding endpoints to Cisco ISE |
| 2                       | 1.2                      | 2.2                     | Cisco ISE 2.2 model changes | apiAdded                      | Added custom operation to get list of rejected endpoints: <code>/getrejectedendpoints</code>         |
|                         |                          |                         |                             | apiAdded                      | Added custom operation to release rejected endpoint: <code>{id}/releaserejectedendpoint</code>       |

### Resource Definition

| Attribute                    | Type    | Re-<br>quired | Description                         | Example Values                       |
|------------------------------|---------|---------------|-------------------------------------|--------------------------------------|
| name                         | String  | Yes           | Resource Name                       | 11:22:33:44:55:66                    |
| id                           | String  | No            | Resource UUID, mandatory for update | 172f8270-8f4f-11eb-b4a8-9eb04987ed29 |
| description                  | String  | No            |                                     | MyEndpoint                           |
| customAttributes             | Map     | No            | Key value map                       | {“key1” : “value1”}                  |
| groupId                      | String  | Yes           |                                     | aa13bb40-8bff-11e6-996c-525400b48521 |
| identityStore                | String  | No            |                                     | identityStore                        |
| identityStoreId              | String  | No            |                                     | identityStoreId                      |
| mac                          | String  | Yes           |                                     | 11:22:33:44:55:66                    |
| portalUser                   | String  | No            |                                     | portalUser                           |
| profileId                    | String  | No            |                                     | profileId                            |
| staticGroupAs-<br>signment   | Boolean | Yes           |                                     | true                                 |
| staticProfileAs-<br>signment | Boolean | Yes           |                                     | false                                |

**release\_rejected\_endpoint** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to release a rejected endpoint.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`release_rejected`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *release\_rejected\_endpoint*

**`deregister_endpoint`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to de-register an endpoint.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deregister`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *deregister\_endpoint*

**`get_rejected_endpoints`** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to get the rejected endpoints.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_rejected** (*headers=None, \*\*query\_parameters*)

Alias for *get\_rejected\_endpoints*

**get\_endpoint\_by\_name** (*name, headers=None, \*\*query\_parameters*)

This API allows the client to get an endpoint by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoint\_by\_name*

**get\_endpoint\_by\_id** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an endpoint by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_by\_id*

**update\_endpoint\_by\_id** (*id*, *custom\_attributes=None*, *description=None*, *group\_id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an endpoint.

### Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.

- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *custom\_attributes=None*, *description=None*, *group\_id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_endpoint\_by\_id*

**delete\_endpoint\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an endpoint.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response



Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_endpoint\_by\_id*

**register\_endpoint** (*custom\_attributes=None*, *description=None*, *group\_id=None*, *id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to register an endpoint.

Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **id** (*string*) – id, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.
- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**register** (*custom\_attributes=None, description=None, group\_id=None, id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *register\_endpoint*

**get\_endpoints** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoints. Filter: Filters can be used to filter out Endpoints based on a set of attributes. This API currently provides the following filters: [logicalProfileName, portalUser, staticProfileAssignment, profileId, profile, groupId, staticGroupAssignment, mac] Example 1: The logicalProfileName filter can be used to get Endpoints that belong to a specific Logical Profile. The supported operator for logicalProfileNamefilter is EQ (equal to). The syntax to invoke the API with this filter: `/ers/config/endpoint?filter={filter name}.{operator}.{logical profile name}` Example: `https://{ise-ip}:9060/ers/config/endpoint?filter=logical ProfileName.EQ.LP_Apple` Example 2: To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET `/ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18` Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_endpoints*

**`get_endpoints_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoints. Filter: Filters can be used to filter out Endpoints based on a set of attributes. This API currently provides the following filters: [logicalProfileName, portalUser, staticProfileAssignment, profileId, profile, groupId, staticGroupAssignment, mac] Example 1: The logicalProfileName filter can be used to get Endpoints that belong to a specific Logical Profile. The supported operator for logicalProfileNamefilter is EQ (equal to). The syntax to invoke the API with this filter: `/ers/config/endpoint?filter={filter name}.{operator}.{logical profile name}` Example: `https://{ise-ip}:9060/ers/config/endpoint?filter=logical ProfileName.EQ.LP_Apple` Example 2: To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET `/ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18` Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoints\_generator*

**create\_endpoint** (*custom\_attributes=None, description=None, group\_id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an endpoint.

### Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.
- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*custom\_attributes=None, description=None, group\_id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_endpoint*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_endpoint** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_request\_for\_endpoint*

**monitor\_bulk\_status\_endpoint** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_endpoint*

## nbar\_app

### **class NbarApp**

Identity Services Engine nbarApp API (version: 3.1.0).

Wraps the Identity Services Engine nbarApp API and exposes the API as native Python methods that return native Python objects.

**`get_nbar_apps`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all NBAR Applications.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).



### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_nbar\_apps*

**`get_nbar_apps_generator`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all NBAR Applications.

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:



- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_nbar\_apps\_generator*

**create\_nbar\_app** (*description=None, id=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Create NBAR application.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **network\_identities** (*list*) – Array of NIs, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, id=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for [create\\_nbar\\_app](#)

**get\_nbar\_app\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Get NBAR Application by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for [get\\_nbar\\_app\\_by\\_id](#)

**update\_nbar\_app\_by\_id** (*id, description=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Update NBAR Application.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **network\_identities** (*list*) – Array of NIs, property of the request body (list of objects).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *description=None*, *name=None*, *network\_identities=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_nbar\_app\_by\_id*

**`delete_nbar_app_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
Delete NBAR Application.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_nbar\_app\_by\_id*

## portal

### class Portal

Identity Services Engine portal API (version: 3.1.0).

Wraps the Identity Services Engine portal API and exposes the API as native Python methods that return native Python objects.

Portal API allows the client to search profiles.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description   |
|------------|------------------|-------------------|---|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version                           |
| 1          | 2.0              | 1.3               | Introducing new schema - not supporting 1.0 anymore |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Example Values                            |
|-------------|--------|----------|-------------------------------------|---|
| name        | String | Yes      | Resource Name                       | ISE Portal (default)                      |
| id          | String | No       | Resource UUID, mandatory for update | bc5524ea-b1e5-47ed-a907-5304821da916      |
| description | String | No       |                                     | ISE Portal for saml based feature purpose |
| portal-Type | String | No       |                                     | GUEST                                     |

**get\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_portal\_by\_id*

**`get_portals`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the portals. Filter: [name, description]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portals*

**get\_portals\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portals. Filter: [name, description]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portals\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the portal.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## px\_grid\_node

**class PxGridNode**

Identity Services Engine pxGridNode API (version: 3.1.0).

Wraps the Identity Services Engine pxGridNode API and exposes the API as native Python methods that return native Python objects.

pxGrid Node API allows the client to retrieve pxGrid information, delete an existing pxGrid node, and approve new pxGrid nodes. **Note:** From Cisco ISE Release 3.1, all pxGrid connections must be based on pxGrid 2.0. pxGrid 1.0-based (XMPP-based) integrations will cease to work on Cisco ISE from Release 3.1 onwards. pxGrid Version 2.0, which is based on WebSockets, was introduced in Cisco ISE Release 2.4. We recommend that you plan and upgrade your other systems to pxGrid 2.0-compliant versions in order to prevent potential disruptions, if any, to integrations.

## Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

## Resource Definition

| Attribute    | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       | ers-sample-client                    |
| id           | String | No        | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| descrip-tion | String | No        |                                     | ERS sample client                    |
| status       | String | No        |                                     | Online (XMPP)                        |
| auth-Method  | String | No        |                                     | Certificate                          |
| groups       | String | No        |                                     |                                      |

## pxGrid Characterization

### Session data Consumption over pxGrid

On a 35 node Cisco ISE deployment with a dedicated primary Policy Administration node (PAN), dedicated secondary PAN, dedicated primary Monitoring and Troubleshooting node (MnT node), dedicated secondary MnT, dedicated pxGrid node and 30 heterogeneous Policy Service node (PSN) platforms, there was no delay observed in consuming session data with the following parameters as shown in the table below:

| <b>RADIUS Traffic</b>                   | <b>Total number of ses-sions in the deploy-ment</b> | <b>Number of pxGrid clients (subscribers to the session topic)</b> | <b>pxGrid client's delay in consuming session data</b> |
|---|---|--|--|
| Upto 500 transac-tions per second (TPS) | ~2 million  | 50   | No delay   |

### Bulk download time taken

On a 35 node Cisco ISE deployment with a dedicated primary PAN, dedicated secondary PAN, dedicated primary MnT, dedicated secondary MnT, dedicated pxGrid node and 30 heterogeneous PSN Platforms, the bulk download time for all the pxGrid clients is shown in the table below:

| <b>Total number of sessions in the deployment</b> | <b>Number of pxGrid clients (subscribers to the session topic)</b> | <b>Time taken for bulk download</b> |
|---|--|-------------------------------------|
| 2 million   | 50   | ~17 minutes                         |



**Note:** From Cisco ISE Release 3.1, we can use either pxgridnode or pxgridNode in the URL.

**approve\_px\_grid\_node** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to approve a pxGrid node. Only pending pxGrid nodes can be approved.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**approve** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *approve\_px\_grid\_node*

**get\_px\_grid\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a pxGrid node by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_px\_grid\_node\_by\_name*

**delete\_px\_grid\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a pxGrid node by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_px\_grid\_node\_by\_name*

**get\_px\_grid\_node\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a pxGrid node by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_px_grid_node_by_id`*

**`get_px_grid_node`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the npxGrid nodes.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_px_grid_node`*

**`get_px_grid_node_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the npxGrid nodes.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *`get_px_grid_node_generator`*

**`get_version`** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pxGrid node.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *`RestResponse`***Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## sg\_vn\_mapping

### class SgVnMapping

Identity Services Engine sgVnMapping API (version: 3.1.0).

Wraps the Identity Services Engine sgVnMapping API and exposes the API as native Python methods that return native Python objects.

**get\_sg\_vn\_mappings** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Security Group and Virtual Network mappings.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sg\_vn\_mappings*

**get\_sg\_vn\_mappings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Security Group and Virtual Network mappings.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

#### Return type

 Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sg\_vn\_mappings\_generator*

**create\_sg\_vn\_mapping** (*id=None, last\_update=None, sg\_name=None, sgt\_id=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create Security Group and Virtual Network mapping.

#### Parameters

- **id** (*string*) – Identifier of the SG-VN mapping, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the SG-VN mapping, property of the request body.
- **sg\_name** (*string*) – Name of the associated Security Group to be used for identity if id is not provided, property of the request body.
- **sgt\_id** (*string*) – Identifier of the associated Security Group which is required unless its name is provided, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*id=None, last\_update=None, sg\_name=None, sgt\_id=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_sg\_vn\_mapping*

**bulk\_create\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create SG-VN Mappings in bulk.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_create\_sg\_vn\_mappings*

**bulk\_delete\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Delete SG-VN Mappings in bulk.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**



- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_delete\_sg\_vn\_mappings*

**bulk\_update\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update SG-VN Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_update** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_update\_sg\_vn\_mappings*

**get\_sg\_vn\_mapping\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Get Security Group and Virtual Network mapping by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sg\_vn\_mapping\_by\_id*

**`update_sg_vn_mapping_by_id`** (*id*, *last\_update=None*, *sg\_name=None*, *sgt\_id=None*, *vn\_id=None*, *vn\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Update Security Group and Virtual Network mapping.

**Parameters**

- **`id`** (*basestring*) – Identifier of the SG-VN mapping, property of the request body.
- **`last_update`** (*string*) – Timestamp for the last update of the SG-VN mapping, property of the request body.
- **`sg_name`** (*string*) – Name of the associated Security Group to be used for identity if `id` is not provided, property of the request body.
- **`sgt_id`** (*string*) – Identifier of the associated Security Group which is required unless its name is provided, property of the request body.
- **`vn_id`** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **`vn_name`** (*string*) – Name of the associated Virtual Network to be used for identity if `id` is not provided, property of the request body.
- **`id`** – `id` path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to `True`.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *last\_update=None*, *sg\_name=None*, *sgt\_id=None*, *vn\_id=None*, *vn\_name=None*,  
*headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_sg\_vn\_mapping\_by\_id*

**delete\_sg\_vn\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Delete Security Group and Virtual Network mapping.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_sg\_vn\_mapping\_by\_id*

## tasks

### class Tasks

Identity Services Engine tasks API (version: 3.1.0).

Wraps the Identity Services Engine tasks API and exposes the API as native Python methods that return native Python objects.

**get\_task\_status** (*headers=None*, *\*\*query\_parameters*)  
 get all task status.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_task\_status\_by\_id** (*task\_id*, *headers=None*, *\*\*query\_parameters*)

Monitor task status.

**Parameters**

- **task\_id** (*basestring*) – taskId path parameter. The id of the task executed before.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## virtual\_network

### class VirtualNetwork

Identity Services Engine virtualNetwork API (version: 3.1.0).

Wraps the Identity Services Engine virtualNetwork API and exposes the API as native Python methods that return native Python objects.

**get\_virtual\_networks** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Virtual Networks.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for [get\\_virtual\\_networks](#)

**get\_virtual\_networks\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Virtual Networks.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for [get\\_virtual\\_networks\\_generator](#)

**create\_virtual\_network** (*additional\_attributes=None, id=None, last\_update=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create Virtual Network.

#### Parameters

- **additional\_attributes** (*string*) – JSON String of additional attributes for the Virtual Network, property of the request body.
- **id** (*string*) – Identifier of the Virtual Network, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the Virtual Network, property of the request body.
- **name** (*string*) – Name of the Virtual Network, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*additional\_attributes=None, id=None, last\_update=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [create\\_virtual\\_network](#)

**bulk\_create\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_create\_virtual\_networks*

**bulk\_delete\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Delete Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_delete\_virtual\_networks*

**bulk\_update\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Update Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_update** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_update\_virtual\_networks*

**get\_virtual\_network\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
 Get Virtual Network by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_virtual\_network\_by\_id*

**`update_virtual_network_by_id`** (*id*, *additional\_attributes=None*, *last\_update=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Update Virtual Network.

**Parameters**

- **`additional_attributes`** (*string*) – JSON String of additional attributes for the Virtual Network, property of the request body.
- **`id`** (*basestring*) – Identifier of the Virtual Network, property of the request body.
- **`last_update`** (*string*) – Timestamp for the last update of the Virtual Network, property of the request body.
- **`name`** (*string*) – Name of the Virtual Network, property of the request body.
- **`id`** – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *additional\_attributes=None*, *last\_update=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_virtual\_network\_by\_id*

**delete\_virtual\_network\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Delete Virtual Network.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_virtual\_network\_by\_id*

## vn\_vlan\_mapping

### class VnVlanMapping

Identity Services Engine vnVlanMapping API (version: 3.1.0).

Wraps the Identity Services Engine vnVlanMapping API and exposes the API as native Python methods that return native Python objects.

**get\_vn\_vlan\_mappings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

Get all VN-Vlan Mappings.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using

the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_vn\_vlan\_mappings*

**get\_vn\_vlan\_mappings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all VN-Vlan Mappings.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .

With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS  
Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_vn\_vlan\_mappings\_generator*

**create\_vn\_vlan\_mapping** (*id=None, is\_data=None, is\_default\_vlan=None, last\_update=None, max\_value=None, name=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create VN-Vlan Mapping.

### Parameters

- **id** (*string*) – Identifier of the VN-Vlan Mapping, property of the request body.
- **is\_data** (*boolean*) – Flag which indicates whether the Vlan is data or voice type, property of the request body.
- **is\_default\_vlan** (*boolean*) – Flag which indicates if the Vlan is default, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the VN-Vlan Mapping, property of the request body.
- **max\_value** (*integer*) – Max value, property of the request body.
- **name** (*string*) – Name of the Vlan, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.

- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*id=None, is\_data=None, is\_default\_vlan=None, last\_update=None, max\_value=None, name=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_vn\_vlan\_mapping*

**bulk\_create\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create VN-Vlan Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_create\_vn\_vlan\_mappings*

**bulk\_delete\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Delete VN-Vlan Mappings in bulk.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_delete\_vn\_vlan\_mappings*

**bulk\_update\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Update VN-Vlan Mappings in bulk.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request_update`** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_update\_vn\_vlan\_mappings*

**`get_vn_vlan_mapping_by_id`** (*id, headers=None, \*\*query\_parameters*)  
Get VN-Vlan Mapping by id.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_vn\_vlan\_mapping\_by\_id*



```
update_vn_vlan_mapping_by_id (id, is_data=None, is_default_vlan=None, last_update=None,
                                max_value=None, name=None, vn_id=None,
                                vn_name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Update VN-Vlan Mapping.

#### Parameters

- **id** (*basestring*) – Identifier of the VN-Vlan Mapping, property of the request body.
- **is\_data** (*boolean*) – Flag which indicates whether the Vlan is data or voice type, property of the request body.
- **is\_default\_vlan** (*boolean*) – Flag which indicates if the Vlan is default, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the VN-Vlan Mapping, property of the request body.
- **max\_value** (*integer*) – Max value, property of the request body.
- **name** (*string*) – Name of the Vlan, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
delete_vn_vlan_mapping_by_id (id, headers=None, **query_parameters)
```

Delete VN-Vlan Mapping.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## IdentityServicesEngineAPI v3.1.1

### aci\_bindings

**class AciBindings**

Identity Services Engine ACIBindings API (version: 3.1.1).

Wraps the Identity Services Engine ACIBindings API and exposes the API as native Python methods that return native Python objects.

The ACI Bindings API allows clients to retrieve bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on the ACI bindings page in the Cisco ISE UI. Filtering will be based on one attribute only, such as ip, sgt, vn, psn, learnedFrom, or learnedBy with CONTAINS mode of search.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

**Resource Definition**

| Attribute   | Type   | Required | Description   | Example Values  |
|-------------|--------|----------|---|---|
| name        | String | Yes      | Resource Name   |   |
| id          | String | No       | Resource UUID value   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69                        |
| description | String | No       |   |   |
| ip          | String | Yes      | Binding IPv4 address. Each binding will be exclusively identified by its IP address and virtual network | 10.0.0.1  |
| sgt         | String | No       | Security Group Tag (SGT) value. The valid range for SGT values is 0-65534                               | 1234  |
| vn          | String | Yes      | Virtual network. Each binding will be exclusively identified by its IP address and virtual network      | vn1234  |
| psn         | String | No       | Cisco ISE Policy Service node (PSN) IP address  | 10.86.189.216   |
| learnedFrom | String | Yes      | Binding Source  | ISE by ACI ACI by ISE                                       |
| learnedBy   | String | Yes      | Binding Type  | SXP(SXP, 0) STATIC(Static, 1) RADIUS(RADIUS, 2) ACI(ACI, 3) |

**get\_aci\_bindings** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API allows clients to retrieve all the bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on ACI bindings page in the Cisco ISE UI. Filtering will be based on one attribute only, such as ip/sgt/vn/psn/learnedFrom/learnedBy with CONTAINS mode of search.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter\_by** (*basestring, list, set, tuple*) – filterBy query parameter.
- **filter\_value** (*basestring, list, set, tuple*) – filterValue query parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_aci\_bindings*

**`get_aci_bindings_generator`** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API allows clients to retrieve all the bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on ACI bindings page in the Cisco ISE UI. Filtering will be based on one attribute only, such as ip/sgt/vn/psn/learnedFrom/learnedBy with CONTAINS mode of search.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter_by`** (*basestring, list, set, tuple*) – filterBy query parameter.
- **`filter_value`** (*basestring, list, set, tuple*) – filterValue query parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- *RestResponse*: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_aci\_bindings\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the Cisco ACI bindings.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## aci\_settings

### class AciSettings

Identity Services Engine ACISettings API (version: 3.1.1).

Wraps the Identity Services Engine ACISettings API and exposes the API as native Python methods that return native Python objects.

ACI Settings API allows the client to get and update the ACI Settings. In addition, testing the ACI Domain Manager connection is also possible using the TestACIConnection.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute                   | Type         | Re-<br>quired | Description                                  | Default<br>Values | Example Values                       |
|-----------------------------|--------------|---------------|--|-------------------|--------------------------------------|
| name                        | String       | Yes           | Resource Name                                |                   | AciSettings                          |
| id                          | String       | No            | Resource UUID value                          |                   | 29fb45ab-6a8e-4658-8a28-02521c258178 |
| description                 | String       | No            |  |                   | Aci Settings                         |
| enableAci                   | Boolean      | Yes           | Enable ACI Integration                       | false             |                                      |
| isAci50                     | Boolean      | Yes           | Enable 5.0 ACI Version                       | false             |                                      |
| ipAddressHost-<br>Name      | String       | No            | ACI Cluster IP Address /<br>Host name        |                   |                                      |
| adminName                   | String       | No            | ACI Cluster Admin name                       |                   |                                      |
| adminPassword               | String       | No            | ACI Cluster Admin pass-<br>word              |                   |                                      |
| tenantName                  | String       | No            | ACI Cluster Tenant name                      | ISE               |                                      |
| l3RouteNetwork              | String       | No            | ACI Cluster L3 Route net-<br>work name       | L3_ROUTE          |                                      |
| suffixToEpg                 | String       | No            | Name Conversion - EPG<br>suffix              | SGT               |                                      |
| suffixToSgt                 | String       | No            | Name Conversion - SGT<br>suffix              | EPG               |                                      |
| allSxpDomain                | Boolean      | No            | SXP Propagation to all the<br>SXP domains    | false             |                                      |
| specificSxpDo-<br>main      | Boolean      | No            | SXP Propagation to spe-<br>cific SXP domains | true              |                                      |
| specifixSxpDo-<br>mainList  | List         | No            | Specific SXP domains list                    | [default]         |                                      |
| isAci51                     | Boolean      | Yes           | Enable 5.1 ACI Version                       | false             |                                      |
| aciipaddress                | String       | No            | ACI Domain manager Ip<br>Address             |                   |                                      |
| aciuserName                 | String       | No            | ACI Domain manager<br>Username               |                   |                                      |
| acipassword                 | String       | No            | ACI Domain manager<br>Password               |                   |                                      |
| enableData-<br>Plane        | Boolean      | No            | Enable data plane                            | false             |                                      |
| untaggedPack-<br>etIepgName | String       | No            | Untagged IEPG packets<br>name                | untagged          |                                      |
| defaultSgtName              | String       | No            | Default SGT name                             | Unknown           |                                      |
| enableEle-<br>mentsLimit    | Boolean      | No            | Enable Elements Limit                        | false             |                                      |
| maxNu-<br>mIepgFromAci      | Inte-<br>ger | No            | Max number of IEPGs                          | 1000              |                                      |
| maxNumSgt-<br>ToAci         | Inte-<br>ger | No            | Max number of SGTs                           | 500               |                                      |

**get\_aci\_settings** (*headers=None, \*\*query\_parameters*)

This API allows the client to get ACI Settings.

## Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_aci\_settings*

**test\_aci\_connectivity** (*headers=None, \*\*query\_parameters*)

This API allows the client to test ACI Domain Manager connection.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_aci_settings_by_id(id, aci50=None, aci51=None, aciipaddress=None, aci-
                           password=None, aciuser_name=None, admin_name=None,
                           admin_password=None, all_sxp_domain=None,
                           default_sgt_name=None, enable_aci=None, enable_data_plane=None,
                           enable_elements_limit=None, ip_address_host_name=None,
                           l3_route_network=None, max_num_iepg_from_aci=None,
                           max_num_sgt_to_aci=None, specific_sxp_domain=None,
                           specifix_sxp_domain_list=None, suffix_to_epg=None,
                           suffix_to_sgt=None, tenant_name=None, untagged_packet_iepg_name=None,
                           headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update ACI settings.

#### Parameters

- **aci50** (*boolean*) – Enable 5.0 ACI Version, property of the request body.
- **aci51** (*boolean*) – Enable 5.1 ACI Version, property of the request body.
- **aciipaddress** (*string*) – ACI Domain manager Ip Address., property of the request body.
- **acipassword** (*string*) – ACI Domain manager Password., property of the request body.
- **aciuser\_name** (*string*) – ACI Domain manager Username., property of the request body.
- **admin\_name** (*string*) – ACI Cluster Admin name, property of the request body.
- **admin\_password** (*string*) – ACI Cluster Admin password, property of the request body.
- **all\_sxp\_domain** (*boolean*) – allSxpDomain, property of the request body.
- **default\_sgt\_name** (*string*) – defaultSgtName, property of the request body.
- **enable\_aci** (*boolean*) – Enable ACI Integration, property of the request body.
- **enable\_data\_plane** (*boolean*) – enableDataPlane, property of the request body.
- **enable\_elements\_limit** (*boolean*) – enableElementsLimit, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **ip\_address\_host\_name** (*string*) – ACI Cluster IP Address / Host name, property of the request body.
- **l3\_route\_network** (*string*) – l3RouteNetwork, property of the request body.
- **max\_num\_iepg\_from\_aci** (*integer*) – maxNumIepgFromAci, property of the request body.
- **max\_num\_sgt\_to\_aci** (*integer*) – maxNumSgtToAci, property of the request body.
- **specific\_sxp\_domain** (*boolean*) – specificSxpDomain, property of the request body.
- **specifix\_sxp\_domain\_list** (*list*) – specifixSxpDomainList, property of the request body (list of strings).
- **suffix\_to\_epg** (*string*) – suffixToEpg, property of the request body.



- **suffix\_to\_sgt** (*string*) – suffixToSgt, property of the request body.
- **tenant\_name** (*string*) – tenantName, property of the request body.
- **untagged\_packet\_iepg\_name** (*string*) – untaggedPacketIepgName, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, aci50=None, aci51=None, aciipaddress=None, acipassword=None,
             aciuser_name=None, admin_name=None, admin_password=None,
             all_sxp_domain=None, default_sgt_name=None, enable_aci=None, enable_data_plane=None,
             enable_elements_limit=None, ip_address_host_name=None, l3_route_network=None,
             max_num_iepg_from_aci=None, max_num_sgt_to_aci=None, specific_sxp_domain=None,
             specific_sxp_domain_list=None, suffix_to_epg=None, suffix_to_sgt=None, tenant_name=None,
             untagged_packet_iepg_name=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_aci\_settings\_by\_id*

```
get_version(headers=None, **query_parameters)
```

This API helps to retrieve the version information related to the Cisco ACI settings.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## anc\_endpoint

### **class AncEndpoint**

Identity Services Engine ANCEndpoint API (version: 3.1.1).

Wraps the Identity Services Engine ANCEndpoint API and exposes the API as native Python methods that return native Python objects.

Adaptive Network Control (ANC) provides the ability to create network endpoint authorization controls based on ANC policies.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |  |

### **Resource Definition**

| Attribute    | Type   | Re-quired | Description                               | Example Values                       |
|--------------|--------|-----------|---|--------------------------------------|
| name         | String | Yes       | Resource Name                             |                                      |
| id           | String | No        | Resource UUID                             | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| descrip-tion | String | No        |   |                                      |
| macAd-dress  | String | Yes       | MAC address of the endpoint               | 00:11:22:33:44:55                    |
| policy-Name  | String | Yes       | Policy name to be applied to the endpoint | policy1                              |

## Supported ANC API transactions per second

On a 5 node Cisco ISE deployment with 60k sessions or on a 9 node Cisco ISE deployment with 200k/500k sessions, 250 transactions per second (TPS) is supported for any ANC API.

### Supported ANC APIs

\* applyEndpointByMacAddress \* clearEndpointByMacaddress \* applyEndpointByIpAddress \*  
applyEndpointPolicy \* clearEndpointPolicy

| Deployment | Number of Sessions | Supported ANC APIs TPS |
|------------|--------------------|------------------------|
| 5 nodes    | 60k                | 250                    |
| 9 nodes    | 200k               | 250                    |
| 5 nodes    | 500k               | 250                    |

**get\_anc\_endpoint\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC endpoint by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_endpoint\_by\_id*

**clear\_anc\_endpoint** (*additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to clear the required configuration.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**clear** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *clear\_anc\_endpoint*

**get\_anc\_endpoint** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC endpoints. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_anc\_endpoint*

**get\_anc\_endpoint\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC endpoints. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_anc\_endpoint\_generator*

**apply\_anc\_endpoint** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to apply the required configuration.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**apply** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *apply\_anc\_endpoint*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the ANC Endpoint.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_anc\_endpoint** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request`** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *`bulk_request_for_anc_endpoint`*

**`monitor_bulk_status_anc_endpoint`** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**

- **`bulkid`** (*basestring*) – bulkid path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *`monitor_bulk_status_anc_endpoint`*



## active\_directory

### class ActiveDirectory

Identity Services Engine ActiveDirectory API (version: 3.1.1).

Wraps the Identity Services Engine ActiveDirectory API and exposes the API as native Python methods that return native Python objects.

The Active Directory API allows the user to carry out add, delete, and search operations on the active directory domains through Cisco ISE's join points. For example, if you want to connect to the domain cisco.com and retrieve the domain groups, you can carry out the following steps which are also available as APIs: Step 1 Create a domain join point in Cisco ISE. In the "domain" parameter use cisco.com.

Step 2 Get all defined join points and copy your join point's ID from the response.

Step 3 Join all Cisco ISE nodes to the domain. Use the ID received in the Step 2 in the URL. From this point onwards, you can perform several actions. In each action you should specify the joint point ID in the URL, as retrieved in step 2 in the previous configuration task. For example, you can:

- Retrieve the user groups using the join point ID.

- Retrieve the groups of a specific domain using the join point ID. The domain parameter can be cisco.com or any of its trusted domains. You can use the get all trusted domains operation to retrieve the list.

### Revision History

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Version | Description   | Revision<br>Modifica-<br>tion        | Revision Modification   |
|-------------------------|-------------------------------|-------------------------|---|--------------------------------------|---|
|                         |                               |                         |   | Attribute                            | Description   |
| 0                       | 1.0                           | 2.2                     | Initial Cisco ISE Version   |                                      |   |
| 1                       | 1.1                           | 2.4                     | Support new attributes  | advanced-<br>Settings                | Added ERSActiveDirectoryAd-<br>vancedSettings Attribute 'ad-<br>vancedSettings' |
|                         |                               |                         |   | adAt-<br>tributes                    | Added ERSActiveDirectoryAt-<br>tributes Attribute 'adAttributes'                |
|                         |                               |                         |   | enable-<br>Domain-<br>WhiteList      | Added Boolean Attribute 'en-<br>ableDomainWhiteList'                            |
| 2                       | 1.2                           | 3.1                     | Support new attributes<br>under ActiveDirectory<br>AdvancedSettings | enable-<br>FailedAuth-<br>Protection | Added Boolean Attribute 'en-<br>ableFailedAuthProtection'                       |
|                         |                               |                         |   | failedAu-<br>thThresh-<br>old        | Added Integer Attribute<br>'failedAuthThreshold'                                |
|                         |                               |                         |   | auth Protec-<br>tionType             | Added Enum Attribute 'authPro-<br>tectionType'                                  |

### Resource Definition

| Attribute             | Type    | Required | Description  | Default Values | Example Values                       |
|-----------------------|---------|----------|--|----------------|--------------------------------------|
| name                  | String  | Yes      | Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/_ characters  | ...            | Company_users                        |
| id                    | String  | No       | Resource UUID value  | ...            | af1cd190-7d71-11eb-b02e-ead13cf60dcb |
| description           | String  | No       | No character restriction   | ...            | Group of Active company users        |
| domain                | String  | Yes      | The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed   | ...            | cisco.com                            |
| adScopesNames         | String  | No       | String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (_) characters are allowed | Default_Scope  | ...                                  |
| enableDomainWhitelist | Boolean | No       | ...  | true           | ...                                  |
| adGroups              | List    | No       | Holds list of AD Groups  | ...            | ...                                  |
| • groups              | List    | No       | List of Groups   | ...            | ...                                  |

Continued on next page

Table 17 – continued from previous page

|              |        |     |   |        |                     |
|--------------|--------|-----|---|--------|---------------------|
| • name       | String | Yes | Required for each group in the group list with no duplication between groups. All characters are allowed except %   | ...    | cisco.com/operators |
| • sid        | String | Yes | Cisco ISE uses security identifiers (SIDs) for optimization of group membership evaluation. SIDs are useful for efficiency (speed) when the groups are evaluated. All characters are allowed except % | ...    | S-1-5-32-548        |
| • type       | String | No  | No character restriction  | ...    | GLOBAL              |
| adAttributes | List   | No  | Holds list of AD Attributes   | ...    | ...                 |
| • attributes | List   | No  | List of Attributes  | ...    | ...                 |
| • name       | String | Yes | Required for each attribute in the attribute list with no duplication between attributes. All characters are allowed except <%”   | ...    | name1               |
| • type       | Enum   | Yes | Required for each group in the group list. Allowed values:<br>- STRING,<br>- IP,<br>- BOOLEAN,<br>- INT,<br>- OCTET_STRING  | STRING | ...                 |

Continued on next page

Table 17 – continued from previous page

|                  |         |     |  |     |               |
|------------------|---------|-----|--|-----|---------------|
| • internalName   | String  | Yes | Required for each attribute in the attribute list. All characters are allowed except <%”   | ... | internalName1 |
| • defaultValue   | String  | Yes | Required for each attribute in the attribute list. Can contain an empty string. All characters are allowed except <%”  | ... | defaultString |
| advancedSettings | List    | No  | ...  | ... | ...           |
| • rewriteRules   | List    | No  | Identity rewrite is an advanced feature that directs Cisco ISE to manipulate the identity before it is passed to the external Active Directory system. You can create rules to change the identity to a desired format that includes or excludes a domain prefix and/or suffix or other additional markup of your choice | ... | ...           |
| • rowId          | Integer | Yes | Required for each rule in the list in serial order   | ... | 0             |
| • rewriteMatch   | String  | Yes | Required for each rule in the list with no duplication between rules. All characters are allowed except %”   | ... | exampleMatch0 |

Continued on next page

Table 17 – continued from previous page

|                                    |         |     |  |                      |                |
|------------------------------------|---------|-----|--|----------------------|----------------|
| •<br>rewriteResult                 | String  | Yes | Required for each rule in the list. All characters are allowed except %” | ...                  | exampleResult0 |
| •<br>enableRewrites                | Boolean | No  | ...  | false                | ...            |
| •<br>enablePassChange              | Boolean | No  | ...  | true                 | ...            |
| •<br>enableMachineAuth             | Boolean | No  | ...  | true                 | ...            |
| •<br>enableMachineAccess           | Boolean | No  | ...  | true                 | ...            |
| •<br>enableDialinPermissionCheck   | Boolean | No  | ...  | false                | ...            |
| •<br>plaintextAuth                 | Boolean | No  | ...  | false                | ...            |
| •<br>agingTime                     | Integer | No  | Range 1-8760 hours   | 5                    | ...            |
| •<br>enableCallbackForDialinClient | Boolean | No  | ...  | false                | ...            |
| •<br>identityNotInAdBehaviour      | Enum    | No  | Allowed values:<br>- REJECT,<br>- SEARCH_JOINED_FOREST,<br>- SEARCH_ALL  | SEARCH_JOINED_FOREST | ...            |
| •<br>unreachableDomainsBehaviour   | Enum    | No  | Allowed values:<br>- PROCEED,<br>- DROP                                  | PROCEED              | ...            |

Continued on next page

Table 17 – continued from previous page

|                      |        |    |  |                  |     |
|----------------------|--------|----|--|------------------|-----|
| • schema             | Enum   | No | Allowed values: - ACTIVE_DIRECTORY, - CUSTOM-Choose ACTIVE_DIRECTORY schema when the AD attributes defined in AD can be copied to relevant attributes in Cisco ISE. If customization is needed, choose CUSTOM schema. All User info attributes are always set to default value if schema is ACTIVE_DIRECTORY. Values can be changed only for CUSTOM schema | ACTIVE_DIRECTORY |     |
| • firstName          | String | No | User info attribute. All characters are allowed except %   | givenName        | ... |
| • department         | String | No | User info attribute. All characters are allowed except %   | department       | ... |
| • lastName           | String | No | User info attribute. All characters are allowed except %   | sn               | ... |
| • organizationalUnit | String | No | User info attribute. All characters are allowed except %   | company          | ... |
| • jobTitle           | String | No | User info attribute. All characters are allowed except %   | title            | ... |

Continued on next page

Table 17 – continued from previous page

|                              |         |    |   |                 |     |
|------------------------------|---------|----|---|-----------------|-----|
| • locality                   | String  | No | User info attribute. All characters are allowed except %                      | l               | ... |
| • email                      | String  | No | User info attribute. All characters are allowed except %                      | mail            | ... |
| • stateOrProvince            | String  | No | User info attribute. All characters are allowed except %                      | st              | ... |
| • telephone                  | String  | No | User info attribute. All characters are allowed except %                      | telephoneNumber | ... |
| • country                    | String  | No | User info attribute. All characters are allowed except %                      | co              | ... |
| • streetAddress              | String  | No | User info attribute. All characters are allowed except %                      | streetAddress   | ... |
| • enableFailedAuthProtection | Boolean | No | Enable prevent AD account lockout due to too many bad password attempts       | false           | ... |
| • failedAuthThreshold        | Integer | No | Number of bad password attempts   | 5               | ... |
| • authProtectionType         | Enum    | No | Enable prevent AD account lockout. Allowed values:- WIRELESS, - WIRED, - BOTH | WIRELESS        | ... |

**get\_active\_directory\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get Active Directory by name.

#### Parameters

- **name** (*basestring*) – name path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_active\_directory\_by\_name*

**get\_user\_groups** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to get groups of which a given user is a member.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.



- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**load\_groups\_from\_domain** (*id*, *ad\_attributes=None*, *ad\_scopes\_names=None*, *adgroups=None*, *advanced\_settings=None*, *description=None*, *domain=None*, *enable\_domain\_white\_list=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API loads domain groups configuration from Active Directory into Cisco ISE.

#### Parameters

- **ad\_attributes** (*object*) – Holds list of AD Attributes, property of the request body.
- **ad\_scopes\_names** (*string*) – String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (\_) characters are allowed, property of the request body.
- **adgroups** (*object*) – Holds list of AD Groups, property of the request body.
- **advanced\_settings** (*object*) – advancedSettings, property of the request body.
- **description** (*string*) – No character restriction, property of the request body.
- **domain** (*string*) – The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed, property of the request body.
- **enable\_domain\_white\_list** (*boolean*) – enableDomainWhiteList, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **name** (*string*) – Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/characters, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**leave\_domain** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API makes a Cisco ISE node to leave an Active Directory domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**is\_user\_member\_of\_groups** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API verifies if the user is a member of the given groups.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_trusted_domains`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API gets the list of domains that are accessible through the given join point via trust relationships.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`join_domain_with_all_nodes`** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins all Cisco ISE Nodes to an Active Directory domain.

**Parameters**

- **`additional_data`** (*list*) – additionalData, property of the request body (list of objects).
- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**leave\_domain\_with\_all\_nodes** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins makes all Cisco ISE nodes leave an Active Directory domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_groups\_by\_domain** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API lists the groups of the given domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_active\_directory\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API fetches the join point details by ID. The ID can be retrieved with the Get All operation.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_active\_directory\_by\_id*

**delete\_active\_directory\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an AD join point from Cisco ISE.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_active\_directory\_by\_id*

**join\_domain** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins a Cisco ISE node to an Active Directory domain.

**Parameters**

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_active_directory`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API lists all the join points for Active Directory domains in Cisco ISE.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_active\_directory*

**`get_active_directory_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API lists all the join points for Active Directory domains in Cisco ISE.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.

- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [get\\_active\\_directory\\_generator](#)

**create\_active\_directory** (*ad\_attributes=None, ad\_scopes\_names=None, adgroups=None, advanced\_settings=None, description=None, domain=None, enable\_domain\_white\_list=None, id=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an AD join point in Cisco ISE.

### Parameters

- **ad\_attributes** (*object*) – Holds list of AD Attributes, property of the request body.
- **ad\_scopes\_names** (*string*) – String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (\_) characters are allowed, property of the request body.
- **adgroups** (*object*) – Holds list of AD Groups, property of the request body.
- **advanced\_settings** (*object*) – advancedSettings, property of the request body.
- **description** (*string*) – No character restriction, property of the request body.
- **domain** (*string*) – The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed, property of the request body.
- **enable\_domain\_white\_list** (*boolean*) – enableDomainWhiteList, property of the request body.
- **id** (*string*) – Resource UUID value, property of the request body.
- **name** (*string*) – Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/characters, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*ad\_attributes=None, ad\_scopes\_names=None, adgroups=None, advanced\_settings=None, description=None, domain=None, enable\_domain\_white\_list=None, id=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_active\_directory*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the active directory.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**admin\_user****class AdminUser**

Identity Services Engine AdminUser API (version: 3.1.1).

Wraps the Identity Services Engine AdminUser API and exposes the API as native Python methods that return native Python objects.

The Admin User API allows to retrieve information related to admin users configured on Cisco ISE.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description                      |
|------------|------------------|-------------------|----------------------------------|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version        |
| 1          | 1.1              | 2.0               | Cisco ISE Release 2.3 Admin User |

**Resource Definition**

| Attribute                              | Type    | Re-<br>quired | Description   | Example Values                           | De-<br>fault<br>Value |
|--|---------|---------------|---|--|-----------------------|
| name                                   | String  | Yes           | Resource Name   |  |                       |
| id                                     | String  | Yes           | Resource UUID   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69     |                       |
| description                            | String  | No            |   |  |                       |
| changePass-<br>word                    | Boolean | Yes           |   | true                                     | true                  |
| email                                  | String  | No            |   | <a href="#">email1@domain.com</a>        |                       |
| includeSys-<br>temAlarm-<br>sInEmail   | Boolean | No            |   | false                                    |                       |
| inactiveAc-<br>countN-<br>everDisabled | Boolean | No            |   | true                                     |                       |
| enabled                                | Boolean | Yes           |   | false                                    |                       |
| external                               | Boolean | No            |   | true                                     |                       |
| customAt-<br>tributes                  | String  | No            | Key Value Map   | {“MyCustom-<br>Attribute” :<br>“Value1”} |                       |
| firstName                              | String  | No            |   |  |                       |
| adminGroups                            | String  | No            | Admin Group Names   | Super Admin                              |                       |
| lastName                               | String  | No            |   |  |                       |
| password                               | String  | No            | The password field doesn’t show the actual password configured. It is hidden with the asterisk (*) symbol |  |                       |

`get_admin_user_by_id(id, headers=None, **query_parameters)`

This API allows the client to get an admin user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_admin_user_by_id`

`get_admin_users(filter=None, filter_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, **query_parameters)`

This API allows the client to get all the admin users. Filter: [firstName, lastName, adminGroups, name, description, inactiveAccountNeverDisabled, includeSystemAlarmsInEmail, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_admin\_users*

**get\_admin\_users\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the admin users. Filter: [firstName, lastName, adminGroups, name, description, inactiveAccountNeverDisabled, includeSystemAlarmsInEmail, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_admin\_users\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the admin user.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

## allowed\_protocols

### class AllowedProtocols

Identity Services Engine AllowedProtocols API (version: 3.1.1).

Wraps the Identity Services Engine AllowedProtocols API and exposes the API as native Python methods that return native Python objects.

Allowed Protocols API allows the client to add, delete, update, search and perform actions on allowed protocols.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               | Revision Modification                | Revision Modification                                     |
|------------|------------------|-------------------|---------------------------|--------------------------------------|---|
|            |                  |                   |                           | Attribute                            | Description   |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |                                      |   |
| 1          | 1.1              | 2.7               | Added support for TEAP    | preferredEapProtocol                 | Added value 'TEAP' to enum attribute preferredEapProtocol |
|            |                  |                   |                           | allowTeap                            | Added boolean attribute allowTeap                         |
|            |                  |                   |                           | allowTeapEapMsChapV2                 | Added boolean attribute allowTeapEapMsChapV2              |
|            |                  |                   |                           | allowTeapEapMsChapV2PwdChange        | Added boolean attribute allowTeap                         |
|            |                  |                   |                           | allowTeapEapMsChapV2PwdChangeRetries | Added int attribute allowTeapEapMsChapV2PwdChangeRetries  |
|            |                  |                   |                           | allowTeapEapTls                      | Added boolean attribute allowTeapEapTls                   |

### Resource Definition

| Attribute | Type   | Required | Description                         | Example Values                       |
|-----------|--------|----------|-------------------------------------|--------------------------------------|
| name      | String | Yes      | Resource Name                       | Default Device Admin                 |
| id        | String | No       | Resource UUID, Mandatory for update | 926901b0-8c01-11e6-996c-525400b48521 |

Continued on next page

Table 18 – continued from previous page

| description                          | String  | No  |  | Default Protocol Device Admin | Allowed Service Admin |
|--------------------------------------|---------|-----|--|-------------------------------|-----------------------|
| processHostLookup                    | Boolean | Yes |  | true                          |                       |
| allowPapAscii                        | Boolean | No  |  | true                          |                       |
| allowChap                            | Boolean | Yes |  | false                         |                       |
| allowMsChapV1                        | Boolean | Yes |  | false                         |                       |
| allowMsChapV2                        | Boolean | Yes |  | false                         |                       |
| allowEapMd5                          | Boolean | Yes |  | true                          |                       |
| allowLeap                            | Boolean | Yes |  | false                         |                       |
| allowEapTls                          | Boolean | Yes |  | true                          |                       |
| allowEapTtls                         | Boolean | Yes |  | true                          |                       |
| allowEapFast                         | Boolean | Yes |  | true                          |                       |
| allowPeap                            | Boolean | Yes |  | true                          |                       |
| allowTeap                            | Boolean | Yes |  | true                          |                       |
| allowPreferredEapProtocol            | Boolean | Yes |  | true                          |                       |
| eapTlsLBit                           | Boolean | Yes |  | false                         |                       |
| allowWeakCiphersForEap               | Boolean | Yes |  | false                         |                       |
| requireMessageAuth                   | Boolean | Yes |  | false                         |                       |
| preferredEapProtocol                 | Enum    | No  | The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored.                                  | PEAP                          |                       |
| eapTls                               | List    | No  | The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol |                               |                       |
| • allowEapTlsAuthOfExpiredCerts      | Boolean | Yes |  | false                         |                       |
| • eapTlsEnableStatelessSessionResume | Boolean | Yes |  | false                         |                       |

Continued on next page

Table 18 – continued from previous page

|                                    |         |     |  |         |
|------------------------------------|---------|-----|--|---------|
| •<br>eapTlsSessionTicketTtl        | Integer | No  | Time to live. The eapTlsSessionTicketTtl is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored                  | 1       |
| •<br>eapTlsSessionTicketTtlUnits   | Enum    | No  | Time to live time units. The eapTlsSessionTicketTtlUnits is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored. | SECONDS |
| •<br>eapTlsSessionTicketPercentage | Integer | No  | The eapTlsSessionTicketPercentage is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored                         | 1       |
| peap                               | List    | No  | The peap is required only if allowPeap is true, otherwise it must be ignored. The object peap contains the settings for PEAP protocol                  |         |
| •<br>allowPeapEapMsChapV2          | Boolean | Yes |  | true    |
| •<br>allowPeapEapMsChapV2PwdChange | Boolean | No  | The allowPeapEapMsChapV2PwdChange is required only if allowPeapEapMsChapV2 is true, otherwise it must be ignored                                       | true    |

Continued on next page



Table 18 – continued from previous page

|  |         |     |  |       |
|--|---------|-----|--|-------|
| •<br>allowPeapEapMsChapV2PwChangeRetries | Integer | No  | The allowPeapEapMsChapV2PwChangeRetries is required only if allowPeapEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3 | 1     |
| •<br>allowPeapEapGtc                     | Boolean | Yes |  | false |
| •<br>allowPeapEapGtcPwChange             | Boolean | No  | The allowPeapEapGtcPwChange is required only if allowPeapEapGtc is true, otherwise it must be ignored                                      | false |
| •<br>allowPeapEapGtcPwChangeRetries      | Integer | No  | The allowPeapEapGtcPwChangeRetries is required only if allowPeapEapGtc is true, otherwise it must be ignored. Valid range is 0-3           | 1     |
| •<br>allowPeapEapTls                     | Boolean | Yes |  | true  |
| •<br>allowPeapEapTlsAuthOfExpiredCerts   | Boolean | No  | The allowPeapEapTlsAuthOfExpiredCerts is required only if allowPeapEapTls is true, otherwise it must be ignored                            | false |
| •<br>requireCryptobinding                | Boolean | Yes |  | false |
| •<br>allowPeapV0                         | Boolean | Yes |  | false |

Continued on next page

Table 18 – continued from previous page

|                                      |         |     |  |      |
|--------------------------------------|---------|-----|--|------|
| eapTtls                              | List    | No  | The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol |      |
| • eapTtlsPapAscii                    | Boolean | Yes |  | true |
| • eapTtlsChap                        | Boolean | Yes |  | true |
| • eapTtlsMsChapV1                    | Boolean | Yes |  | true |
| • eapTtlsMsChapV2                    | Boolean | Yes |  | true |
| • eapTtlsEapMd5                      | Boolean | Yes |  | true |
| • eapTtlsEapMsChapV2                 | Boolean | Yes |  | true |
| • eapTtlsEapMsChapV2PwdChange        | Boolean | No  | The eapTtlsEapMsChapV2PwdChange is required only if eapTtlsEapMsChapV2 is true, otherwise it must be ignored                                       | true |
| • eapTtlsEapMsChapV2PwdChangeRetries | Integer | No  | The eapTtlsEapMsChapV2PwdChangeRetries is required only if eapTtlsEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3            | 1    |

Continued on next page

Table 18 – continued from previous page

|  |         |     |   |      |
|--|---------|-----|---|------|
| eapFast                                  | List    | No  | The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eap-Fast contains the settings for EAP FAST protocol |      |
| • allowEapFastEapMsChapV2                | Boolean | Yes |   | true |
| • allowEapFastEapMsChapV2PwChange        | Boolean | No  | The allowEap-FastEapM-sChapV2PwChange is required only if allowEap-FastEapM-sChapV2 is true, otherwise it must be ignored                           | true |
| • allowEapFastEapMsChapV2PwChangeRetries | Integer | No  | The allowEap-FastEapM-sChapV2PwChangeRetries is required only if eapTlsEapM-sChapV2 is true, otherwise it must be ignored. Valid range is 0-3       | 1    |
| • allowEapFastEapGtc                     | Boolean | Yes |   | true |
| • allowEapFastEapGtcPwChange             | Boolean | No  | The allowEap-FastEapGtcPw-Change is required only if allowEap-FastEapGtc is true, otherwise it must be ignored                                      | true |
| • allowEapFastEapGtcPwChangeRetries      | Integer | No  | The allowEap-FastEapGtcPw-ChangeRetries is required only if allowEap-FastEapGtc is true, otherwise it must be ignored. Valid range is 0-3           | 1    |

Continued on next page

Table 18 – continued from previous page

|  |         |     |  |         |
|--|---------|-----|--|---------|
| •<br>allowEapFastEapTls                            | Boolean | Yes |  | true    |
| •<br>allowEapFastEapTlsAuthOfExpiredCerts          | Boolean | No  | The allowEapFastEapTlsAuthOfExpiredCerts is required only if allowEapFastEapTls is true, otherwise it must be ignored      | false   |
| •<br>eapFastEnableEAPChaining                      | Boolean | Yes |  | false   |
| •<br>eapFastUsePacs                                | Boolean | Yes |  | true    |
| •<br>eapFastUsePacsTunnelPacTtl                    | Integer | No  | The eapFastUsePacsTunnelPacTtl is required only if eapFastUsePacs is true, otherwise it must be ignored                    | 7776000 |
| •<br>eapFastUsePacsTunnelPacTtlUnits               | Enum    | No  | The eapFastUsePacsTunnelPacTtlUnits is required only if eapFastUsePacs is true, otherwise it must be ignored.              | SECONDS |
| •<br>eapFastUsePacsUseProactivePacUpdatePercentage | Integer | No  | The eapFastUsePacsUseProactivePacUpdatePercentage is required only if eapFastUsePacs is true, otherwise it must be ignored | 10      |
| •<br>eapFastUsePacsAllowAnonymProvisioning         | Boolean | No  | The eapFastUsePacsAllowAnonymProvisioning is required only if eapFastUsePacs is true, otherwise it must be ignored         | false   |

Continued on next page

Table 18 – continued from previous page

|   |         |    |  |         |
|---|---------|----|--|---------|
| •<br>eapFastUsePacsAllowAuthenProvisioning                          | Boolean | No | The eapFastUsePacsAllowAuthenProvisioning is required only if eapFastUsePacs is true, otherwise it must be ignored   | false   |
| •<br>eapFastUsePacsReturnAccessAcceptAfterAuthenticatedProvisioning | Boolean | No | The eapFastUsePacsReturnAccessAcceptAfterAuthenticatedProvisioning is required only if eapFastUsePacsAllowAuthenProvisioning is true, otherwise it must be ignored | false   |
| •<br>eapFastUsePacsAcceptClientCert                                 | Boolean | No | The eapFastUsePacsAcceptClientCert is required only if eapFastUsePacsAllowAuthenProvisioning is true, otherwise it must be ignored                                 | false   |
| •<br>eapFastUsePacsAllowMachineAuthentication                       | Boolean | No |  | false   |
| •<br>eapFastUsePacsMachinePacTtl                                    | Integer | No | The eapFastUsePacsMachinePacTtl is required only if eapFastUsePacsAllowMachineAuthentication is true, otherwise it must be ignored                                 | 1       |
| •<br>eapFastUsePacsMachinePacTtlUnits                               | Enum    | No | The eapFastUsePacsMachinePacTtlUnits is required only if eapFastUsePacsAllowMachineAuthentication is true, otherwise it must be ignored.                           | SECONDS |

Continued on next page

Table 18 – continued from previous page

|   |         |     |  |         |
|---|---------|-----|--|---------|
| •<br>eapFastUsePacsStatelessSessionResume         | Boolean | No  | The eapFastUsePacsStatelessSessionResume is required only if eapFastUsePacs is true, otherwise it must be ignored                          | false   |
| •<br>eapFastUsePacsAuthorizationPacTtl            | Integer | No  | The eapFastUsePacsAuthorizationPacTtl is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored       | 1       |
| •<br>eapFastUsePacsAuthorizationPacTtlUnits       | Enum    | No  | The eapFastUsePacsAuthorizationPacTtlUnits is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored. | SECONDS |
| •<br>eapFastDontUsePacsAcceptClientCert           | Boolean | No  | The eapFastDontUsePacsAcceptClientCert is required only if eapFastUsePacs is FALSE, otherwise it must be ignored                           | false   |
| •<br>eapFastDontUsePacsAllowMachineAuthentication | Boolean | No  | The eapFastDontUsePacsAllowMachineAuthentication is required only if eapFastUsePacs is FALSE, otherwise it must be ignored                 | false   |
| teap  | List    | No  | The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol      |         |
| •<br>allowTeapEapMsChapV2                         | Boolean | Yes |  | true    |

Continued on next page

Table 18 – continued from previous page

|   |         |     |   |       |
|---|---------|-----|---|-------|
| •<br>allowTeapEapMsChapV2PwdChange        | Boolean | No  | The allowTeapEapMsChapV2PwdChange is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored                            | true  |
| •<br>allowTeapEapMsChapV2PwdChangeRetries | Integer | No  | The allowTeapEapMsChapV2PwdChangeRetries is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3 | 3     |
| •<br>allowTeapEapTls                      | Boolean | Yes |   | true  |
| •<br>allowTeapEapTlsAuthOfExpiredCerts    | Boolean | No  | The allowTeapEapTlsAuthOfExpiredCerts is required only if allowTeapEapTls is true, otherwise it must be ignored                             | false |
| •<br>acceptClientCertDuringTunnelEst      | Boolean | Yes |   | true  |
| •<br>enableEapChaining                    | Boolean | Yes |   | false |
| •<br>allowDowngradeMsk                    | Boolean | Yes |   | false |

**get\_allowed\_protocol\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an allowed protocol by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_allowed_protocol_by_name`*

**`get_allowed_protocol_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an allowed protocol by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_allowed_protocol_by_id`*



```

update_allowed_protocol_by_id(id,    allow_chap=None,    allow_eap_fast=None,    al-
                                low_eap_md5=None,    allow_eap_tls=None,    al-
                                low_eap_ttls=None,    allow_leap=None,    al-
                                low_ms_chap_v1=None,    allow_ms_chap_v2=None,
                                allow_pap_ascii=None,    allow_peap=None,    al-
                                low_preferred_eap_protocol=None,    allow_teap=None,
                                allow_weak_ciphers_for_eap=None,    description=None,
                                eap_fast=None,    eap_tls=None,    eap_tls_l_bit=None,
                                eap_ttls=None,    name=None,    peap=None,    pre-
                                ferred_eap_protocol=None,    process_host_lookup=None,
                                require_message_auth=None,    teap=None,    head-
                                ers=None,    payload=None,    active_validation=True,
                                **query_parameters)

```

This API allows the client to update an allowed protocol.

#### Parameters

- **allow\_chap** (*boolean*) – allowChap, property of the request body.
- **allow\_eap\_fast** (*boolean*) – allowEapFast, property of the request body.
- **allow\_eap\_md5** (*boolean*) – allowEapMd5, property of the request body.
- **allow\_eap\_tls** (*boolean*) – allowEapTls, property of the request body.
- **allow\_eap\_ttls** (*boolean*) – allowEapTtls, property of the request body.
- **allow\_leap** (*boolean*) – allowLeap, property of the request body.
- **allow\_ms\_chap\_v1** (*boolean*) – allowMsChapV1, property of the request body.
- **allow\_ms\_chap\_v2** (*boolean*) – allowMsChapV2, property of the request body.
- **allow\_pap\_ascii** (*boolean*) – allowPapAscii, property of the request body.
- **allow\_peap** (*boolean*) – allowPeap, property of the request body.
- **allow\_preferred\_eap\_protocol** (*boolean*) – allowPreferredEapProtocol, property of the request body.
- **allow\_teap** (*boolean*) – allowTeap, property of the request body.
- **allow\_weak\_ciphers\_for\_eap** (*boolean*) – allowWeakCiphersForEap, property of the request body.
- **description** (*string*) – description, property of the request body.
- **eap\_fast** (*object*) – The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eapFast contains the settings for EAP FAST protocol, property of the request body.
- **eap\_tls** (*object*) – The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol, property of the request body.
- **eap\_tls\_l\_bit** (*boolean*) – eapTlsLBit, property of the request body.
- **eap\_ttls** (*object*) – The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol, property of the request body.
- **id** (*basestring*) – Resource UUID, Mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.

- **peap** (*object*) – peap, property of the request body.
- **preferred\_eap\_protocol** (*string*) – The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored. Allowed Values: EAP\_FAST, PEAP, LEAP, EAP\_MD5, EAP\_TLS, EAP\_TTLS, TEAP, property of the request body.
- **process\_host\_lookup** (*boolean*) – processHostLookup, property of the request body.
- **require\_message\_auth** (*boolean*) – requireMessageAuth, property of the request body.
- **teap** (*object*) – The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, allow_chap=None, allow_eap_fast=None, allow_eap_md5=None,
             allow_eap_tls=None, allow_eap_ttls=None, allow_leap=None, allow_ms_chap_v1=None,
             allow_ms_chap_v2=None, allow_pap_ascii=None, allow_peap=None,
             allow_preferred_eap_protocol=None, allow_teap=None, allow_weak_ciphers_for_eap=None,
             description=None, eap_fast=None, eap_tls=None, eap_tls_l_bit=None, eap_ttls=None,
             name=None, peap=None, preferred_eap_protocol=None, process_host_lookup=None,
             require_message_auth=None, teap=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for `update_allowed_protocol_by_id`

```
delete_allowed_protocol_by_id(id, headers=None, **query_parameters)
```

This API deletes an allowed protocol.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_allowed\_protocol\_by\_id*

**get\_allowed\_protocols** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the allowed protocols.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_allowed\\_protocols\*](#)

**get\_allowed\_protocols\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the allowed protocols.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_allowed\\_protocols\\_generator\*](#)

**create\_allowed\_protocol** (*allow\_chap=None, allow\_eap\_fast=None, allow\_eap\_md5=None, allow\_eap\_tls=None, allow\_eap\_ttls=None, allow\_leap=None, allow\_ms\_chap\_v1=None, allow\_ms\_chap\_v2=None, allow\_pap\_ascii=None, allow\_peap=None, allow\_preferred\_eap\_protocol=None, allow\_teap=None, allow\_weak\_ciphers\_for\_eap=None, description=None, eap\_fast=None, eap\_tls=None, eap\_tls\_l\_bit=None, eap\_ttls=None, name=None, peap=None, preferred\_eap\_protocol=None, process\_host\_lookup=None, require\_message\_auth=None, teap=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an allowed protocol.

#### Parameters

- **allow\_chap** (*boolean*) – allowChap, property of the request body.
- **allow\_eap\_fast** (*boolean*) – allowEapFast, property of the request body.
- **allow\_eap\_md5** (*boolean*) – allowEapMd5, property of the request body.

- **allow\_eap\_tls** (*boolean*) – allowEapTls, property of the request body.
- **allow\_eap\_ttls** (*boolean*) – allowEapTtls, property of the request body.
- **allow\_leap** (*boolean*) – allowLeap, property of the request body.
- **allow\_ms\_chap\_v1** (*boolean*) – allowMsChapV1, property of the request body.
- **allow\_ms\_chap\_v2** (*boolean*) – allowMsChapV2, property of the request body.
- **allow\_pap\_ascii** (*boolean*) – allowPapAscii, property of the request body.
- **allow\_peap** (*boolean*) – allowPeap, property of the request body.
- **allow\_preferred\_eap\_protocol** (*boolean*) – allowPreferredEapProtocol, property of the request body.
- **allow\_teap** (*boolean*) – allowTeap, property of the request body.
- **allow\_weak\_ciphers\_for\_eap** (*boolean*) – allowWeakCiphersForEap, property of the request body.
- **description** (*string*) – description, property of the request body.
- **eap\_fast** (*object*) – The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eapFast contains the settings for EAP FAST protocol, property of the request body.
- **eap\_tls** (*object*) – The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol, property of the request body.
- **eap\_tls\_l\_bit** (*boolean*) – eapTlsLBit, property of the request body.
- **eap\_ttls** (*object*) – The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **peap** (*object*) – peap, property of the request body.
- **preferred\_eap\_protocol** (*string*) – The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored. Allowed Values: EAP\_FAST, PEAP, LEAP, EAP\_MD5, EAP\_TLS, EAP\_TTLS, TEAP, property of the request body.
- **process\_host\_lookup** (*boolean*) – processHostLookup, property of the request body.
- **require\_message\_auth** (*boolean*) – requireMessageAuth, property of the request body.
- **teap** (*object*) – The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*allow\_chap=None, allow\_eap\_fast=None, allow\_eap\_md5=None, allow\_eap\_tls=None, allow\_eap\_ttls=None, allow\_leap=None, allow\_ms\_chap\_v1=None, allow\_ms\_chap\_v2=None, allow\_pap\_ascii=None, allow\_peap=None, allow\_preferred\_eap\_protocol=None, allow\_teap=None, allow\_weak\_ciphers\_for\_eap=None, description=None, eap\_fast=None, eap\_tls=None, eap\_tls\_l\_bit=None, eap\_ttls=None, name=None, peap=None, preferred\_eap\_protocol=None, process\_host\_lookup=None, require\_message\_auth=None, teap=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_allowed\_protocol*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the allowed protocols.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## anc\_policy

### class AncPolicy

Identity Services Engine AncPolicy API (version: 3.1.1).

Wraps the Identity Services Engine AncPolicy API and exposes the API as native Python methods that return native Python objects.

Adaptive Network Control (ANC) provides the ability to create network endpoint authorization controls based on ANC policies.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |  |

### Resource Definition

| Attribute   | Type   | Required | Description   | Example Values |
|-------------|--------|----------|---|----------------|
| name        | String | Yes      | Resource Name   |                |
| id          | String | No       | Resource ID   | test           |
| description | String | No       |   |                |
| action      | Enum   | Yes      | <ul style="list-style-type: none"> <li>• <b>QUARANTINE:</b><br/>Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network.</li> <li>• <b>PORTBOUNCE:</b><br/>Resets the port on the network device to which the endpoint is connected</li> <li>• <b>SHUTDOWN</b><br/>: Shuts down the port on the network device to which the endpoint is connected</li> <li>• <b>RE_AUTHENTICATE:</b><br/>Re-authenticates the session from the endpoint</li> </ul> |                |

**get\_anc\_policy\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC policy by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_policy\_by\_name*

**`get_anc_policy_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC policy by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_policy\_by\_id*

**`update_anc_policy_by_id`** (*id*, *actions=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an ANC policy.

**Parameters**

- **actions** (*list*) – QUARANTINE: Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network. PORTBOUNCE: Resets the port on the network device to which the endpoint is connected. SHUTDOWN : Shuts down the port on the network device to which the endpoint is connected. RE\_AUTHENTICATE: Re-authenticates the session from the endpoint., property of the request body (list of strings. Available values are ‘QUARANTINE’, ‘PORTBOUNCE’, ‘SHUTDOWN’ and ‘RE\_AUTHENTICATE’).
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *actions=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_anc\_policy\_by\_id*

**delete\_anc\_policy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to delete an ANC policy.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_anc_policy_by_id`*

**`get_anc_policy`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the ANC policies. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_anc\_policy*

**`get_anc_policy_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC policies. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *`get_anc_policy_generator`*

**`create_anc_policy`** (*actions=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create an ANC policy.

**Parameters**

- **`actions`** (*list*) – QUARANTINE: Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network. PORTBOUNCE: Resets the port on the network device to which the endpoint is connected. SHUTDOWN : Shuts down the port on the network device to which the endpoint is connected. RE\_AUTHENTICATE: Re-authenticates the session from the endpoint., property of the request body (list of strings. Available values are 'QUARANTINE', 'PORTBOUNCE', 'SHUTDOWN' and 'RE\_AUTHENTICATE').
- **`name`** (*string*) – name, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *`RestResponse`*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*actions=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_anc\_policy*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the ANC policy.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_anc\_policy** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request`** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *`bulk_request_for_anc_policy`*

**`monitor_bulk_status_anc_policy`** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**

- **`bulkid`** (*basestring*) – bulkid path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *`monitor_bulk_status_anc_policy`*

## authorization\_profile

### **class AuthorizationProfile**

Identity Services Engine AuthorizationProfile API (version: 3.1.1).

Wraps the Identity Services Engine AuthorizationProfile API and exposes the API as native Python methods that return native Python objects.

Authorization Profile API allows the client to add, delete, update, search and perform actions on authorization profiles.

## Revision History

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Ver-<br>sion | Description                               | Revi-<br>sion<br>Mod-<br>ifica-<br>tion | Revision Modification   |
|-------------------------|-------------------------------|------------------------------|---|---|---|
|                         |                               |                              |   | At-<br>tribute                          | Description   |
| 0                       | 1.0                           | 2.2                          | Initial Cisco ISE Version                 |   |   |
| 1                       | 1.1                           | 2.3                          | Support new attributes under common tasks | ac-<br>cessType                         | Added Attribute 'accessType'. Default value:'ACCESS_ACCEPT', additional values: 'ACCESS_REJECT'   |
|                         |                               |                              |   | au-<br>thzPro-<br>file-<br>Type         | Added Attribute 'authzProfileType' to differentiate between types of authorization profiles. Default value:'SWITCH' (used for Standard Authorization Profiles) , additional values:'TACACS', 'TRUSTSEC' |
|                         |                               |                              |   | reauth                                  | Added Attribute 'reauth' to determine reauthentication policy   |
|                         |                               |                              |   | we-<br>bRedi-<br>rec-<br>tion           | Added Attribute 'webRedirection' to support selection of portal redirection   |
|                         |                               |                              |   | acl                                     | Added String Attribute 'acl'  |
|                         |                               |                              |   | track-<br>Move-<br>ment                 | Added Boolean Attribute 'trackMovement'   |

## Resource Definition

| Attribute      | Type    | Required | Description         | Default Values | Example Val-<br>ues |
|----------------|---------|----------|---------------------|----------------|---------------------|
| name           | String  | Yes      | Resource Name       |                | name                |
| id             | String  | No       | Resource UUID value |                | id                  |
| description    | String  | No       |                     |                | description         |
| vlan           | List    | No       |                     |                |                     |
| • nameID       | String  | Yes      |                     |                | vlanName            |
| • tagID        | Integer | Yes      | Valid range is 0-31 |                | 1                   |
| airespaceACL   | String  | No       |                     |                | ACL                 |
| webRedirection | List    | No       |                     |                |                     |

Continued on next page



Table 19 – continued from previous page

|                                      |         |     |  |               |                                  |
|--------------------------------------|---------|-----|--|---------------|----------------------------------|
| • WebRedirectionType                 | String  | Yes | Value MUST be one of the following: CentralizedWebAuth, HotSpot, NativeSupplicantProvisioning, ClientProvisioning. The WebRedirectionType must fit the portalName                |               | CentralizedWebAuth               |
| • acl                                | String  | Yes |  |               | acl                              |
| • portalName                         | String  | Yes | A portal that exist in the DB and fits the WebRedirectionType  |               | Sponsored Guest Portal (default) |
| • staticIPHostNameFQDN               | String  | No  |  |               | 10.56.54.200                     |
| • displayCertificatesRenewalMessages | Boolean | No  | The displayCertificatesRenewalMessages is mandatory when 'WebRedirectionType' value is 'CentralizedWebAuth'. For all other 'WebRedirectionType' values the field must be ignored | true          |                                  |
| accessType                           | Enum    | No  | Allowed Values: ACCESS_ACCEPT, ACCESS_REJECT   | ACCESS_ACCEPT |                                  |
| authzProfileType                     | Enum    | No  | Allowed Values: SWITCH, TRUSTSEC, TACACS   | SWITCH        |                                  |

Continued on next page

Table 19 – continued from previous page

|                                   |         |     |   |       |                         |
|-----------------------------------|---------|-----|---|-------|-------------------------|
|                                   |         |     | SWITCH is used for Standard Authorization Profiles          |       |                         |
| profileName                       | String  | No  |   | Cisco |                         |
| acl                               | String  | No  |   |       | aclfilter               |
| daclName                          | String  | No  |   |       | PERMIT_ALL_IPV4_TRAFFIC |
| autoSmartPort                     | String  | No  |   |       | autoSmartPort           |
| interfaceTemplate                 | String  | No  |   |       | interfaceTemplate       |
| ipv6ACLFILTER                     | String  | No  |   |       | ipv6ACLFILTER           |
| avcProfile                        | String  | No  |   |       | avcProfile              |
| asaVpn                            | String  | No  |   |       | Cisco:cisco-call-type   |
| trackMovement                     | Boolean | No  |   | false |                         |
| serviceTemplate                   | Boolean | No  |   | false |                         |
| easywiredSessionControl           | Boolean | No  |   | false |                         |
| voiceDomainPermission             | Boolean | No  |   | false |                         |
| neat                              | Boolean | No  |   | false |                         |
| webAuth                           | Boolean | No  |   | false |                         |
| macSecPolicy                      | Enum    | No  | Allowed Values: MUST_SECURE, MUST_NOT_SECURE, SHOULD_SECURE |       | MUST_SECURE             |
| reauth                            | List    | No  |   |       |                         |
| • connectivity                    | Enum    | Yes | Allowed Values: DEFAULT, RADIUS_REQUEST                     |       | RADIUS_REQUEST          |
| • timer                           | Integer | Yes | Valid range is 1-65535                                      |       | 1800                    |
| advancedAttributes                | List    | No  |   |       |                         |
| • leftHandSideDictionaryAttribute | List    | Yes | Left side Dictionary and Attribute                          |       |                         |
| • dictionaryName                  | String  | Yes | Dictionary name   |       |                         |
| • attributeName                   | String  | Yes | Attribute name  |       |                         |

Continued on next page

Table 19 – continued from previous page

|                                  |        |     |   |  |                         |
|----------------------------------|--------|-----|---|--|-------------------------|
| •<br>rightHandSideAttributeValue | List   | Yes | Attribute value can be of type AttributeValue or Advanced-DictionaryAttribute. For AttributeValue the value is String, For Advanced-Dictionary-Attribute the value is dictionaryName and attributeName properties |  |                         |
| ipv6DaclName                     | String | No  |   |  | PERMIT_ALL_IPV6_TRAFFIC |
| airespaceIPv6ACLString           | String | No  |   |  | ACL6                    |

**get\_authorization\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an authorization profile by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_authorization\_profile\_by\_name*

**get\_authorization\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an authorization profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_authorization\_profile\_by\_id*

**update\_authorization\_profile\_by\_id** (*id*, *access\_type=None*, *acl=None*, *advanced\_attributes=None*, *agentless\_posture=None*, *airespace\_acl=None*, *airespace\_ipv6\_acl=None*, *asa\_vpn=None*, *authz\_profile\_type=None*, *auto\_smart\_port=None*, *avc\_profile=None*, *dac1\_name=None*, *description=None*, *easy-wired\_session\_candidate=None*, *inter-face\_template=None*, *ipv6\_acl\_filter=None*, *ipv6\_dac1\_name=None*, *mac\_sec\_policy=None*, *name=None*, *neat=None*, *profile\_name=None*, *reauth=None*, *service\_template=None*, *track\_movement=None*, *vlan=None*, *voice\_domain\_permission=None*, *web\_auth=None*, *web\_redirection=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an authorization profile.

### Parameters

- **access\_type** (*string*) – Allowed Values: ACCESS\_ACCEPT, ACCESS\_REJECT, property of the request body.
- **acl** (*string*) – acl, property of the request body.
- **advanced\_attributes** (*list*) – advancedAttributes, property of the request body (list of objects).
- **agentless\_posture** (*boolean*) – agentlessPosture, property of the request body.
- **airespace\_acl** (*string*) – airespaceACL, property of the request body.

- **airespace\_ipv6\_acl** (*string*) – airespaceIPv6ACL, property of the request body.
- **asa\_vpn** (*string*) – asaVpn, property of the request body.
- **authz\_profile\_type** (*string*) – Allowed Values: SWITCH, TRUSTSEC, TACACS SWITCH is used for Standard Authorization Profiles, property of the request body.
- **auto\_smart\_port** (*string*) – autoSmartPort, property of the request body.
- **avc\_profile** (*string*) – avcProfile, property of the request body.
- **dacl\_name** (*string*) – daclName, property of the request body.
- **description** (*string*) – description, property of the request body.
- **easywired\_session\_candidate** (*boolean*) – easywiredSessionCandidate, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **interface\_template** (*string*) – interfaceTemplate, property of the request body.
- **ipv6\_acl\_filter** (*string*) – ipv6ACLFILTER, property of the request body.
- **ipv6\_dacl\_name** (*string*) – ipv6DaclName, property of the request body.
- **mac\_sec\_policy** (*string*) – Allowed Values: MUST\_SECURE, MUST\_NOT\_SECURE, SHOULD\_SECURE, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **neat** (*boolean*) – neat, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **reauth** (*object*) – reauth, property of the request body.
- **service\_template** (*boolean*) – serviceTemplate, property of the request body.
- **track\_movement** (*boolean*) – trackMovement, property of the request body.
- **vlan** (*object*) – vlan, property of the request body.
- **voice\_domain\_permission** (*boolean*) – voiceDomainPermission, property of the request body.
- **web\_auth** (*boolean*) – webAuth, property of the request body.
- **web\_redirection** (*object*) – webRedirection, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *access\_type=None*, *acl=None*, *advanced\_attributes=None*, *agent-less\_posture=None*, *airespace\_acl=None*, *airespace\_ipv6\_acl=None*, *asa\_vpn=None*, *authz\_profile\_type=None*, *auto\_smart\_port=None*, *avc\_profile=None*, *dacl\_name=None*, *description=None*, *easywired\_session\_candidate=None*, *interface\_template=None*, *ipv6\_acl\_filter=None*, *ipv6\_dacl\_name=None*, *mac\_sec\_policy=None*, *name=None*, *neat=None*, *profile\_name=None*, *reauth=None*, *service\_template=None*, *track\_movement=None*, *vlan=None*, *voice\_domain\_permission=None*, *web\_auth=None*, *web\_redirection=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_authorization_profile_by_id`

**`delete_authorization_profile_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an authorization profile.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `delete_authorization_profile_by_id`

**get\_authorization\_profiles** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all authorization profiles.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_authorization\_profiles*

**get\_authorization\_profiles\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all authorization profiles.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [`get\_authorization\_profiles\_generator`](#)

**create\_authorization\_profile** (*access\_type=None, acl=None, advanced\_attributes=None, agentless\_posture=None, airespace\_acl=None, airespace\_ipv6\_acl=None, asa\_vpn=None, authz\_profile\_type=None, auto\_smart\_port=None, avc\_profile=None, dacl\_name=None, description=None, easywired\_session\_candidate=None, id=None, interface\_template=None, ipv6\_acl\_filter=None, ipv6\_dacl\_name=None, mac\_sec\_policy=None, name=None, neat=None, profile\_name=None, reauth=None, service\_template=None, track\_movement=None, vlan=None, voice\_domain\_permission=None, web\_auth=None, web\_redirection=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an authorization profile.

**Parameters**

- **access\_type** (*string*) – Allowed Values: ACCESS\_ACCEPT, ACCESS\_REJECT, property of the request body.
- **acl** (*string*) – acl, property of the request body.
- **advanced\_attributes** (*list*) – advancedAttributes, property of the request body (list of objects).
- **agentless\_posture** (*boolean*) – agentlessPosture, property of the request body.
- **airespace\_acl** (*string*) – airespaceACL, property of the request body.
- **airespace\_ipv6\_acl** (*string*) – airespaceIPv6ACL, property of the request body.
- **asa\_vpn** (*string*) – asaVpn, property of the request body.
- **authz\_profile\_type** (*string*) – Allowed Values: SWITCH, TRUSTSEC, TACACS SWITCH is used for Standard Authorization Profiles, property of the request body.
- **auto\_smart\_port** (*string*) – autoSmartPort, property of the request body.
- **avc\_profile** (*string*) – avcProfile, property of the request body.
- **dacl\_name** (*string*) – daclName, property of the request body.
- **description** (*string*) – description, property of the request body.
- **easywired\_session\_candidate** (*boolean*) – easywiredSessionCandidate, property of the request body.
- **id** (*string*) – Resource UUID value, property of the request body.
- **interface\_template** (*string*) – interfaceTemplate, property of the request body.
- **ipv6\_acl\_filter** (*string*) – ipv6ACLFILTER, property of the request body.



- **ipv6\_dacl\_name** (*string*) – ipv6DaclName, property of the request body.
- **mac\_sec\_policy** (*string*) – Allowed Values: MUST\_SECURE, MUST\_NOT\_SECURE, SHOULD\_SECURE, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **neat** (*boolean*) – neat, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **reauth** (*object*) – reauth, property of the request body.
- **service\_template** (*boolean*) – serviceTemplate, property of the request body.
- **track\_movement** (*boolean*) – trackMovement, property of the request body.
- **vlan** (*object*) – vlan, property of the request body.
- **voice\_domain\_permission** (*boolean*) – voiceDomainPermission, property of the request body.
- **web\_auth** (*boolean*) – webAuth, property of the request body.
- **web\_redirection** (*object*) – webRedirection, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

## Return type *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*access\_type=None, acl=None, advanced\_attributes=None, agentless\_posture=None, airespace\_acl=None, airespace\_ipv6\_acl=None, asa\_vpn=None, authz\_profile\_type=None, auto\_smart\_port=None, avc\_profile=None, dacl\_name=None, description=None, easy-wired\_session\_candidate=None, id=None, interface\_template=None, ipv6\_acl\_filter=None, ipv6\_dacl\_name=None, mac\_sec\_policy=None, name=None, neat=None, profile\_name=None, reauth=None, service\_template=None, track\_movement=None, vlan=None, voice\_domain\_permission=None, web\_auth=None, web\_redirection=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_authorization\_profile*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the authorization profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## byod\_portal

### class ByodPortal

Identity Services Engine BYODPortal API (version: 3.1.1).

Wraps the Identity Services Engine BYODPortal API and exposes the API as native Python methods that return native Python objects.

BYOD Portal API provides the ability to Create, Read, Update, Delete and Search BYOD portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute | Type | Required | Description | Default Values | Example Values |
|-----------|------|----------|-------------|----------------|----------------|
|-----------|------|----------|-------------|----------------|----------------|

Continued on next page

Table 20 – continued from previous page

|                  |         |     |   |      |   |
|------------------|---------|-----|---|------|---|
| name             | String  | Yes | Resource Name   |      | BYOD Portal (default)   |
| id               | String  | No  | Resource UUID, mandatory for update   |      | 9a9b910c-54d3-44a4-a3c3-dd007c171599  |
| description      | String  | No  |   |      | Default portal and user experience used when employees register a personal device on the network  |
| portalTestUrl    | String  | No  | URL to bring up a test page for this portal   |      | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portalId=9a9b910c-54d3-44a4-a3c3-dd007c171599">https://{ise-ip}:8443/portal/PortalSetup.action?portalId=9a9b910c-54d3-44a4-a3c3-dd007c171599</a> |
| portalType       | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSORED, GUEST | BYOD |   |
| settings         | List    | No  | Defines all of the settings groups available for a BYOD                               |      |   |
| • portalSettings | List    | No  | The port, interface, certificate, and other basic settings of a portal                |      |   |
| • httpsPort      | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999   |      | 8443  |

Continued on next page

Table 20 – continued from previous page

|                         |         |     |  |      |                                  |
|-------------------------|---------|-----|--|------|----------------------------------|
| • allowedInterfaces     | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 |      | [ “eth0”, “bond0” ]              |
| • certificateGroupTag   | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  |      | Default Portal Certificate Group |
| • endpointIdentityGroup | String  | Yes | Unique Id of the endpoint identity group where user’s devices will be added. Used only in Hotspot Portal                 |      |                                  |
| • displayLang           | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  |      | USEBROWSERLOCALE                 |
| • fallbackLanguage      | String  | No  | Used when displayLang = USE-BROWSER-LOCALE   |      | English                          |
| • alwaysUsedLanguage    | String  | No  | Used when displayLang = ALWAYSUSE  |      | English                          |
| • byodSettings          | List    | No  | Configuration of BYOD Device Welcome, Registration and Success steps   |      |                                  |
| • byodWelcomeSettings   | List    | No  | Configuration of BYOD endpoint welcome step configuration  |      |                                  |
| • enableBYOD            | Boolean | No  |  | true |                                  |

Continued on next page

Table 20 – continued from previous page

|                            |         |    |   |        |                                      |
|----------------------------|---------|----|---|--------|--------------------------------------|
| • enableGuestAccess        | Boolean | No |   | false  |                                      |
| • requireMDM               | Boolean | No |   | false  |                                      |
| • includeAup               | Boolean | No |   | true   |                                      |
| • aupDisplay               | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ONPAGE |                                      |
| • requireAupAcceptance     | Boolean | No |   | false  |                                      |
| • requireScrolling         | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true                                 | false  |                                      |
| • byodRegistrationSettings | List    | No | Configuration of BYOD endpoint Registration step configuration  |        |                                      |
| • showDeviceID             | Boolean | No | Display Device ID field during registration   | true   |                                      |
| • endPointIdentityGroupId  | String  | No | Identity group id for which endpoint belongs  |        | aa13bb40-8bff-11e6-996c-525400b48521 |

Continued on next page

Table 20 – continued from previous page

|                                      |         |    |   |                 |              |
|--------------------------------------|---------|----|---|-----------------|--------------|
| •<br>byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration  |                 |              |
| •<br>successRedirect                 | Enum    | No | After an Authentication Success where should device be redirected.      | AUTHSUCCESSPAGE |              |
| •<br>redirectUrl                     | String  | No | Target URL for redirection, used when successRedirect = URL             |                 | Redirect URL |
| •<br>supportInfoSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration               |                 |              |
| •<br>includeSupportInfoPage          | Boolean | No |   | false           |              |
| •<br>includeMacAddr                  | Boolean | No |   | false           |              |
| •<br>includeIpAddress                | Boolean | No |   | false           |              |
| •<br>includeBrowserUserAgent         | Boolean | No |   | false           |              |
| •<br>includePolicyServer             | Boolean | No |   | false           |              |
| •<br>includeFailureCode              | Boolean | No |   | false           |              |
| •<br>emptyFieldDisplay               | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |                 | HIDE         |

Continued on next page

Table 20 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available for a BYOD   |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 20 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page



Table 20 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | BYOD Portal                    |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 20 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_byod\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a BYOD portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_byod\_portal\_by\_id*

**update\_byod\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a BYOD portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available for a BYOD, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – Resource UUID, mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **id** – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, customizations=None, description=None, name=None, portal_test_url=None,
             portal_type=None, settings=None, headers=None, payload=None, ac-
             tive_validation=True, **query_parameters)
```

Alias for `update_byod_portal_by_id`

```
delete_byod_portal_by_id(id, headers=None, **query_parameters)
```

This API deletes a BYOD portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_byod\_portal\_by\_id*

**get\_byod\_portal** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the BYOD portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_byod\_portal*

**`get_byod_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the BYOD portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_byod\_portal\_generator*

**create\_byod\_portal** (*customizations=None, description=None, id=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a BYOD portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available for a BYOD, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – Resource UUID, mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, id=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_byod\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the BYOD portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## backup\_and\_restore

### class BackupAndRestore

Identity Services Engine Backup And Restore API (version: 3.1.1).

Wraps the Identity Services Engine Backup And Restore API and exposes the API as native Python methods that return native Python objects.

**config\_backup** (*backup\_encryption\_key=None, backup\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers on demand configuration backup on the ISE node. The API returns the task ID. Use the Task Service status API to get the status of the backup job.

#### Parameters

- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CcliSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**config** (*backup\_encryption\_key=None, backup\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *config\_backup*

**cancel\_backup** (*headers=None, \*\*query\_parameters*)

Cancels the backup job running on the node.



**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**cancel** (*headers=None, \*\*query\_parameters*)

Alias for *cancel\_backup*

**get\_last\_config\_backup\_status** (*headers=None, \*\*query\_parameters*)

Gives the last backup status.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_last\_status** (*headers=None, \*\*query\_parameters*)

Alias for *get\_last\_config\_backup\_status*

**restore\_config\_backup** (*backup\_encryption\_key=None, repository\_name=None, restore\_file=None, restore\_include\_adeos=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers a configuration DB restore job on the ISE node. The API returns the task ID. Use the Task Service status API to get the status of the backup job.

#### Parameters

- **backup\_encryption\_key** (*string*) – The encryption key which was provided at the time of taking backup., property of the request body.
- **repository\_name** (*string*) – Name of the configed repository where the backup file exists., property of the request body.
- **restore\_file** (*string*) – Name of the backup file to be restored on ISE node., property of the request body.
- **restore\_include\_adeos** (*string*) – Determines whether the ADE-OS configure is restored. Possible values true, false, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**restore** (*backup\_encryption\_key=None, repository\_name=None, restore\_file=None, restore\_include\_adeos=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *restore\_config\_backup*

**update\_scheduled\_config\_backup** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Update the Schedule of the configuration backup on the ISE node as per the input parameters. This API only helps in editing the schedule.

## Parameters

- **backup\_description** (*string*) – Description of the backup., property of the request body.
- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CeliSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **end\_date** (*string*) – End date of the scheduled backup job. Allowed format MM/DD/YYYY. End date is not required in case of ONE\_TIME frequency., property of the request body.
- **frequency** (*string*) – frequency, property of the request body. Available values are 'DAILY', 'MONTHLY', 'ONCE' and 'WEEKLY'.
- **month\_day** (*string*) – Day of month you want backup to be performed on when scheduled frequency is MONTHLY. Allowed values from 1 to 28., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **start\_date** (*string*) – Start date for scheduling the backup job. Allowed format MM/DD/YYYY., property of the request body.
- **status** (*string*) – status, property of the request body. Available values are 'DISABLE' and 'ENABLE'.
- **time** (*string*) – Time at which backup job get scheduled. example 12:00 AM, property of the request body.
- **week\_day** (*string*) – weekDay, property of the request body. Available values are 'FRI', 'MON', 'SAT', 'SUN', 'THU', 'TUE' and 'WED'.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for [update\\_scheduled\\_config\\_backup](#)

**create\_scheduled\_config\_backup** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Schedules the configuration backup on the ISE node as per the input parameters. This API helps in creating the schedule for the first time.

#### Parameters

- **backup\_description** (*string*) – Description of the backup., property of the request body.
- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CcLiSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **end\_date** (*string*) – End date of the scheduled backup job. Allowed format MM/DD/YYYY. End date is not required in case of ONE\_TIME frequency., property of the request body.
- **frequency** (*string*) – frequency, property of the request body. Available values are 'DAILY', 'MONTHLY', 'ONCE' and 'WEEKLY'.
- **month\_day** (*string*) – Day of month you want backup to be performed on when scheduled frequency is MONTHLY. Allowed values from 1 to 28., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **start\_date** (*string*) – Start date for scheduling the backup job. Allowed format MM/DD/YYYY., property of the request body.
- **status** (*string*) – status, property of the request body. Available values are 'DISABLE' and 'ENABLE'.
- **time** (*string*) – Time at which backup job get scheduled. example 12:00 AM, property of the request body.
- **week\_day** (*string*) – weekDay, property of the request body. Available values are 'FRI', 'MON', 'SAT', 'SUN', 'THU', 'TUE' and 'WED'.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_scheduled\_config\_backup*

## certificate\_profile

### class CertificateProfile

Identity Services Engine CertificateProfile API (version: 3.1.1).

Wraps the Identity Services Engine CertificateProfile API and exposes the API as native Python methods that return native Python objects.

The certificate profile API allows the client to add, search and perform actions on the certificate profiles.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |  |

#### Resource Definition

| Attribute                    | Type    | Required | Description   | Default Values   | Example Values                       |
|------------------------------|---------|----------|---|------------------|--------------------------------------|
| name                         | String  | Yes      | Resource Name   |                  | Certificate_Profile                  |
| id                           | String  | No       | Resource UUID   |                  | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| description                  | String  | No       |   |                  |                                      |
| allowedAsUserName            | Boolean | No       | To be set true or false   | false            |                                      |
| external-identity-store-name | String  | No       | Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen   | [not applicable] | [not applicable]                     |
| certificate-attribute-name   | ENUM    | No       | Attribute name of the Certificate Profile - used only when CERTIFICATE is chosen in usernameFrom. Allowed values: - SUBJECT_COMMON_NAME - SUBJECT_ALTERNATIVE_NAME - SUBJECT_SERIAL_NUMBER - SUBJECT - SUBJECT_ALTERNATIVE_NAME_OTHER_NAME - SUBJECT_ALTERNATIVE_NAME_EMAIL - SUBJECT_ALTERNATIVE_NAME_DNS. - Additional internal value ALL_SUBJECT_AND_ALTERNATIVE_NAMES is used automatically when usernameFrom=UPN | SUBJECT          | COMMON_NAME                          |
| match-Mode                   | ENUM    | No       | Match mode of the Certificate Profile. Allowed values: NEVER, RESOLVE_IDENTITY_AMBIGUITY, BINARY_COMPARISON   | NEVER            |                                      |
| username-From                | ENUM    | No       | The attribute in the certificate where the user name should be taken from.  | CERTIFICATE      |                                      |

**get\_certificate\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate profile by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile\_by\_name*

**`get_certificate_profile_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate profile by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile\_by\_id*

```
update_certificate_profile_by_id(id, allowed_as_user_name=None, certificate_attribute_name=None, description=None, external_identity_store_name=None, match_mode=None, name=None, username_from=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a certificate profile.

#### Parameters

- **allowed\_as\_user\_name** (*boolean*) – allowedAsUserName, property of the request body.
- **certificate\_attribute\_name** (*string*) – Attribute name of the Certificate Profile used only when CERTIFICATE is chosen in usernameFrom. Allowed values: SUBJECT\_COMMON\_NAME SUBJECT\_ALTERNATIVE\_NAME SUBJECT\_SERIAL\_NUMBER SUBJECT\_ALTERNATIVE\_NAME\_OTHER\_NAME SUBJECT\_ALTERNATIVE\_NAME\_EMAIL SUBJECT\_ALTERNATIVE\_NAME\_DNS. Additional internal value ALL\_SUBJECT\_AND\_ALTERNATIVE\_NAMES is used automatically when usernameFrom=UPN, property of the request body.
- **description** (*string*) – description, property of the request body.
- **external\_identity\_store\_name** (*string*) – Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **match\_mode** (*string*) – Match mode of the Certificate Profile. Allowed values: NEVER RESOLVE\_IDENTITY\_AMBIGUITY BINARY\_COMPARISON, property of the request body.
- **name** (*string*) – name, property of the request body.
- **username\_from** (*string*) – The attribute in the certificate where the user name should be taken from. Allowed values: CERTIFICATE (for a specific attribute as defined in certificateAttributeName) UPN (for using any Subject or Alternative Name Attributes in the Certificate an option only in AD), property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response



**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *allowed\_as\_user\_name=None*, *certificate\_attribute\_name=None*, *description=None*, *external\_identity\_store\_name=None*, *match\_mode=None*, *name=None*, *username\_from=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_certificate\_profile\_by\_id*

**get\_certificate\_profile** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the certificate profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile*

**get\_certificate\_profile\_generator** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the certificate profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_certificate\_profile\_generator*

**create\_certificate\_profile** (*allowed\_as\_user\_name=None, certificate\_attribute\_name=None, description=None, external\_identity\_store\_name=None, id=None, match\_mode=None, name=None, username\_from=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a certificate profile.

### Parameters

- **allowed\_as\_user\_name** (*boolean*) – allowedAsUserName, property of the request body.
- **certificate\_attribute\_name** (*string*) – Attribute name of the Certificate Profile used only when CERTIFICATE is chosen in usernameFrom. Allowed values: SUBJECT\_COMMON\_NAME SUBJECT\_ALTERNATIVE\_NAME SUBJECT\_SERIAL\_NUMBER SUBJECT SUBJECT\_ALTERNATIVE\_NAME\_OTHER\_NAME SUBJECT\_ALTERNATIVE\_NAME\_EMAIL SUBJECT\_ALTERNATIVE\_NAME\_DNS. Additional internal value ALL\_SUBJECT\_AND\_ALTERNATIVE\_NAMES is used automatically when usernameFrom=UPN, property of the request body.
- **description** (*string*) – description, property of the request body.
- **external\_identity\_store\_name** (*string*) – Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen, property of the request body.
- **id** (*string*) – id, property of the request body.
- **match\_mode** (*string*) – Match mode of the Certificate Profile. Allowed values: NEVER RESOLVE\_IDENTITY\_AMBIGUITY BINARY\_COMPARISON, property of the request body.
- **name** (*string*) – name, property of the request body.

- **username\_from** (*string*) – The attribute in the certificate where the user name should be taken from. Allowed values: CERTIFICATE (for a specific attribute as defined in certificateAttributeName) UPN (for using any Subject or Alternative Name Attributes in the Certificate an option only in AD), property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*allowed\_as\_user\_name=None, certificate\_attribute\_name=None, description=None, external\_identity\_store\_name=None, id=None, match\_mode=None, name=None, username\_from=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_certificate\_profile*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the certificate profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**certificate\_template****class CertificateTemplate**

Identity Services Engine CertificateTemplate API (version: 3.1.1).

Wraps the Identity Services Engine CertificateTemplate API and exposes the API as native Python methods that return native Python objects.

The certificate template API provides the ability to search for certificate templates.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |

**Resource Definition**

| Attribute      | Type     | Re-quired | Description   | Example Values                       |
|----------------|----------|-----------|---|--------------------------------------|
| name           | String   | Yes       | Resource Name   |                                      |
| id             | String   | No        | Resource UUID   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| descrip-tion   | String   | No        |   |                                      |
| raProfile-Name | String   | Yes       | RA profile for the Certificate template                               | ISE internal CA                      |
| keySize        | Inte-ger | No        | Key Size of the Certificate Template                                  | 2048 1024                            |
| validity       | Inte-ger | No        | Validity period of the Certificate Template:<br>Valid Range 21 - 3652 | 730                                  |

**get\_certificate\_template\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate template by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_template\_by\_name*

**`get_certificate_template_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate template by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_template\_by\_id*

**`get_certificate_template`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get aall the certificate templates.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_certificate\_template*

**get\_certificate\_template\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get aall the certificate templates.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_certificate\_template\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the certificate template.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## certificates

### class Certificates

Identity Services Engine Certificates API (version: 3.1.1).

Wraps the Identity Services Engine Certificates API and exposes the API as native Python methods that return native Python objects.

**get\_csrs** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject timeStamp Supported Date Format: yyyy-MM-dd HH:mm:ss.SSS Supported Operators: EQ, NEQ, GT and LT .

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_csrs\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject timeStamp Supported Date Format: yyyy-MM-dd HH:mm:ss.SSS Supported Operators: EQ, NEQ, GT and LT .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data



model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**generate\_csr** (*allow\_wild\_card\_cert=None, certificate\_policies=None, digest\_type=None, hostnames=None, key\_length=None, key\_type=None, portal\_group\_tag=None, san\_dir=None, san\_dns=None, san\_ip=None, san\_uri=None, subject\_city=None, subject\_common\_name=None, subject\_country=None, subject\_org=None, subject\_org\_unit=None, subject\_state=None, used\_for=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Generate a certificate signing request for Multi-Use, Admin, EAP Authentication, RADIUS DTLS, Px-Grid, SAML, Portal and IMS Services. Following parameters are present in POST request body  
 PARAMETER DESCRIPTION  
 EXAMPLE hostnames List of Cisco ISE node hostnames for which CSRs should be generated  
 "hostnames": ["ise-host1", "ise-host2"]  
 allowWildCardCert Allow use of WildCards in certificates  
 "allowWildCardCert": false  
 keyLength \* required Length of the key used for CSR generation (required).  
 "keyLength": "512"  
 keyType \* required Type of key used for CSR generation either RSA or ECDSA (required).  
 "keyType": "RSA"  
 digestType \* required Hash algorithm used for signing CSR (required).  
 "digestType": "SHA-256"  
 usedFor \* required Certificate usage (required).  
 "usedFor": "MULTI-USE"  
 certificatePolicies Certificate policy OID or list of OIDs that the certificate should conform to. Use comma or space to separate the OIDs.  
 "certificatePolicies": "Certificate Policies"  
 subjectCommonName \* required Certificate common name (CN) (required).  
 "subjectCommonName": "\$FQDN\$" subjectOrgUnit Certificate organizational unit (OU).  
 "subjectOrgUnit": "Engineering"  
 subjectOrg Certificate organization (O).  
 "subjectOrg": "Cisco"  
 subjectCity Certificate city or locality (L).  
 "subjectCity": "San Jose"  
 subjectState Certificate state (ST).  
 "subjectState": "California"  
 subjectCountry Certificate country (C).  
 "subjectCountry": "US"  
 sanDNS Array of SAN (Subject Alternative Name) DNS entries (optional).  
 "sanDNS": ["ise.example.com"]  
 sanIP Array of SAN IP entries (optional).  
 "sanIP": ["1.1.1.1"]  
 sanURI Array of SAN URI entries (optional).  
 "sanURI": ["https://1.1.1.1"]  
 sanDir Array of SAN DIR entries (optional).

“sanDir”: [“CN=AAA,DC=COM,C=IL”] portalGroupTag Portal Group Tag when using certificate for PORTAL service “portalGroupTag”: “Default Portal Certificate Group” NOTE: For allowWildCardCert to be false, the below mentioned parameter is mandatory: hostnames When certificate is selected to be used for Portal Service, the below mentioned parameter is mandatory: portalGroupTag .

### Parameters

- **allow\_wild\_card\_cert** (*boolean*) – allowWildCardCert, property of the request body.
- **certificate\_policies** (*string*) – certificatePolicies, property of the request body.
- **digest\_type** (*string*) – digestType, property of the request body. Available values are ‘SHA-256’, ‘SHA-384’ and ‘SHA-512’.
- **hostnames** (*list*) – hostnames, property of the request body (list of strings).
- **key\_length** (*string*) – keyLength, property of the request body. Available values are ‘1024’, ‘2048’, ‘4096’ and ‘512’.
- **key\_type** (*string*) – keyType, property of the request body. Available values are ‘ECDSA’ and ‘RSA’.
- **portal\_group\_tag** (*string*) – portalGroupTag, property of the request body.
- **san\_dns** (*list*) – sanDNS, property of the request body (list of strings).
- **san\_dir** (*list*) – sanDir, property of the request body (list of strings).
- **san\_ip** (*list*) – sanIP, property of the request body (list of strings).
- **san\_uri** (*list*) – sanURI, property of the request body (list of strings).
- **subject\_city** (*string*) – subjectCity, property of the request body.
- **subject\_common\_name** (*string*) – subjectCommonName, property of the request body.
- **subject\_country** (*string*) – subjectCountry, property of the request body.
- **subject\_org** (*string*) – subjectOrg, property of the request body.
- **subject\_org\_unit** (*string*) – subjectOrgUnit, property of the request body.
- **subject\_state** (*string*) – subjectState, property of the request body.
- **used\_for** (*string*) – usedFor, property of the request body. Available values are ‘ADMIN’, ‘DTLS- AUTH’, ‘EAP-AUTH’, ‘IMS’, ‘MULTI-USE’, ‘PORTAL’, ‘PXGRID’ and ‘SAML’.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**export\_csr** (*hostname*, *id*, *dirpath=None*, *save\_file=None*, *filename=None*, *headers=None*, *\*\*query\_parameters*)

Response of this API carries a CSR corresponding to the requested ID.

**Parameters**

- **`hostname`** (*basestring*) – hostname path parameter. Hostname to which the CSR belongs.
- **`id`** (*basestring*) – id path parameter. ID of the CSR to be exported.
- **`dirpath`** (*basestring*) – Directory absolute path. Defaults to `os.getcwd()`.
- **`save_file`** (*bool*) – Enable or disable automatic file creation of raw response.
- **`filename`** (*basestring*) – The filename used to save the download file.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

The DownloadResponse wrapper. Wraps the `urllib3.response.HTTPResponse`. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.
- **`DownloadFailure`** – If was not able to download the raw
- **`response to a file.`** –

**generate\_intermediate\_ca\_csr** (*headers=None*, *\*\*query\_parameters*)

CSR Generation for Intermediate Certificates.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_csr_by_id`** (*host\_name, id, headers=None, \*\*query\_parameters*)

This API displays details of a Certificate Signing Request of a particular node for given HostName and ID.

**Parameters**

- **`host_name`** (*basestring*) – hostName path parameter. Name of the host of which CSR's should be returned.
- **`id`** (*basestring*) – id path parameter. ID of the Certificate Signing Request returned.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_csr_by_id`** (*host\_name, id, headers=None, \*\*query\_parameters*)

This API deletes a Certificate Signing Request of a particular node based on given HostName and ID.

**Parameters**

- **`host_name`** (*basestring*) – hostName path parameter. Name of the host of which CSR's should be deleted.

- **id** (*basestring*) – id path parameter. ID of the Certificate Signing Request to be deleted.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**regenerate\_ise\_root\_ca** (*remove\_existing\_ise\_intermediate\_csr=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API initiates regeneration of Cisco ISE root CA certificate chain. Response contains ID which can be used to track the status. Setting “removeExistingISEIntermediateCSR” to true removes existing Cisco ISE Intermediate CSR.

#### Parameters

- **remove\_existing\_ise\_intermediate\_csr** (*boolean*) – Setting this attribute to true removes existing Cisco ISE Intermediate CSR, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**renew\_certificates** (*cert\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API initiates regeneration of certificates. Response contains ID which can be used to track the status.

#### Parameters

- **cert\_type** (*string*) – certType, property of the request body. Available values are ‘IMS’ and ‘OCSP’.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bind\_csr** (*admin=None, allow\_extended\_validity=None, allow\_out\_of\_date\_cert=None, allow\_replacement\_of\_certificates=None, allow\_replacement\_of\_portal\_group\_tag=None, data=None, eap=None, host\_name=None, id=None, ims=None, name=None, portal=None, portal\_group\_tag=None, pxgrid=None, radius=None, saml=None, validate\_certificate\_extensions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

**Bind CA Signed Certificate.** **NOTE: This API requires an** existing Certificate Signing Request, and the root certificate must already be trusted. **NOTE:** The certificate may have a validity period longer than 398 days. It may be untrusted by many browsers. **NOTE:** Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following parameters are used in POST body  
PARAMETER DESCRIPTION EXAMPLE name Friendly name of the certificate. “name”: “CA Signed Certificate” data \* required Plain-text contents of the certificate file. Every space needs to be replaced with newline escape sequence (

) (required). Use awk ‘NF {sub(/

/, “”); printf “%sn”, \$0;}’ <<your .pem file>> to extract data from certificate file. “data”: “Plain-text contents of the certificate file.” allowExtendedValidity \* required Allow the certificates greater than

validity of 398 days (required). “allowExtendedValidity”: true allowOutOfDateCert \* required Allow out of date certificates (required). SECURITY ALERT: It is recommended to use “allowOutOfDateCert”: false to avoid binding of expired certificates (not Secure). “allowOutOfDateCert”: true allowReplacementOfCertificates \* required Allow Replacement of certificates (required). “allowReplacementOfCertificates”: true allowReplacementOfPortalGroupTag \* required Allow Replacement of Portal Group Tag (required). “allowReplacementOfPortalGroupTag”: true admin Use certificate to authenticate the Cisco ISE Admin Portal “admin”: false eap Use certificate for EAP protocols that use SSL/TLS tunneling “eap”: false radius Use certificate for RADSec server “radius”: false pxgrid Use certificate for the pxGrid Controller “pxgrid”: false ims Use certificate for the Cisco ISE Messaging Service “ims”: false saml Use certificate for SAML Signing “saml”: false portal Use certificate for portal “portal”: false portalGroupTag Portal Group Tag for using certificate with portal role “portalGroupTag”: “Default Portal Certificate Group” validateCertificateExtensions Validate Certificate Extensions “validateCertificateExtensions”: false Following roles can be used in any combinations ROLE DEFAULT WARNING Admin False Enabling Admin role for this certificate causes an application server restart on the selected node. Note: Make sure required Certificate Chain is imported under Trusted Certificates EAP Authentication False Only one system certificate can be used for EAP. Assigning EAP to this certificate removes the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates RADIUS DTLS False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate removes the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates SAML False SAML cannot be used with other Usage. Enabling SAML unchecks all other Usage. Note: Make sure required Certificate Chain is imported under Trusted Certificates .

#### Args:

**admin(boolean):** Use certificate to authenticate the Cisco ISE Admin Portal, property of the request body.

**allow\_extended\_validity(boolean):** Allow import of certificates with validity greater than 398 days (required), property of the request body.

**allow\_out\_of\_date\_cert(boolean):** Allow out of date certificates (required), property of the request body.

**allow\_replacement\_of\_certificates(boolean):** Allow Replacement of certificates (required), property of the request body.

**allow\_replacement\_of\_portal\_group\_tag(boolean):** Allow Replacement of Portal Group Tag (required), property of the request body.

**data(string):** Signed certificate data (required), property of the request body.

**eap(boolean):** Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.

**host\_name(string):** Name of Host whose CSR ID has been provided (required), property of the request body.

**id(string):** ID of the generated CSR (required), property of the request body.

**ims(boolean):** Use certificate for the Cisco ISE Messaging Service, property of the request body.

**name(string):** Friendly Name of the certificate, property of the request body.

**portal(boolean):** Use for portal, property of the request body.

**portal\_group\_tag(string):** Set Group tag, property of the request body.

**pxgrid(boolean):** Use certificate for the pxGrid Controller, property of the request body.

**radius(boolean):** Use certificate for the RADSec server, property of the request body.

**saml(boolean):** Use certificate for SAML Signing, property of the request body.

**validate\_certificate\_extensions(boolean):** Validate Certificate Extensions, property of the request body.

**headers(dict):** Dictionary of HTTP Headers to send with the Request .

**payload(dict):** A JSON serializable Python object to send in the body of the Request.

**active\_validation(bool):** Enable/Disable payload validation. Defaults to True.

**\*\*query\_parameters:** Additional query parameters (provides support for parameters that may be added in the future).

Returns:

RestResponse: REST response with following properties:

- **headers(MyDict):** response headers.
- **response(MyDict):** response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes):** representation of the request's response
- **text(str):** representation of the request's response

**Raises:** TypeError: If the parameter types are incorrect. MalformedRequest: If the request body created is invalid. ApiError: If the Identity Services Engine cloud returns an error.

**export\_system\_certificate** (*export=None, id=None, password=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Export System Certificate. Following parameters are used in POST body  
PARAMETER DESCRIPTION  
EXAMPLE id \* required ID of a System Certificate (required). "id": "CERT-ID"  
export One of the below option is required "CERTIFICATE" : Export only certificate without private key "CERTIFICATE\_WITH\_PRIVATE\_KEY" : Export both certificate and private key ("certificatePassword" is required). "export": "CERTIFICATE\_WITH\_PRIVATE\_KEY" password \* required Certificate password (required if "export" : CERTIFICATE\_WITH\_PRIVATE\_KEY ). Password constraints: Alphanumeric Minimum of 8 Characters Maximum of 100 Characters "password": "certificate password" NOTE: The response of this API carries a ZIP file containing the certificate and private key if "export" : "CERTIFICATE\_WITH\_PRIVATE\_KEY" in the request. If "export" : "CERTIFICATE" in request body, the response carries a ZIP file containing only the certificate. WARNING: Exporting a private key is not a secure operation. It could lead to possible exposure of the private key. .

#### Parameters

- **export (string)** – export, property of the request body. Available values are 'CERTIFICATE' and 'CERTIFICATE\_WITH\_PRIVATE\_KEY'.
- **id (string)** – id, property of the request body.
- **password (string)** – password, property of the request body.
- **dirpath (basestring)** – Directory absolute path. Defaults to os.getcwd().
- **save\_file (bool)** – Enable or disable automatic file creation of raw response.
- **filename (basestring)** – The filename used to save the download file.
- **headers (dict)** – Dictionary of HTTP Headers to send with the Request .
- **payload (dict)** – A JSON serializable Python object to send in the body of the Request.
- **active\_validation (bool)** – Enable/Disable payload validation. Defaults to True.



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

```
generate_self_signed_certificate (admin=None, allow_extended_validity=None, allow_portal_tag_transfer_for_same_subject=None, allow_replacement_of_certificates=None, allow_replacement_of_portal_group_tag=None, allow_role_transfer_for_same_subject=None, allow_san_dns_bad_name=None, allow_san_dns_non_resolvable=None, allow_wild_card_certificates=None, certificate_policies=None, digest_type=None, eap=None, expiration_ttl=None, expiration_ttl_unit=None, host_name=None, key_length=None, key_type=None, name=None, portal=None, portal_group_tag=None, pxgrid=None, radius=None, saml=None, san_dns=None, san_ip=None, san_uri=None, subject_city=None, subject_common_name=None, subject_country=None, subject_org=None, subject_org_unit=None, subject_state=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Generate Self-signed Certificate NOTE: The certificate may have a validity period longer than 398 days. It may be untrusted by many browsers. NOTE: Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. NOTE: Wildcard certificate and SAML certificate can be generated only on PPA or Standalone Following parameters are used in POST body PARAMETER DESCRIPTION EXAMPLE hostName \* required Hostname or FQDN of the node in which certificate needs to be created (required). "hostName": "ise-node-001" name Friendly name of the certificate. "name": "Self-signed System Certificate" subjectCommonName Certificate common name (CN) NOTE: 1. CN is Mandatory if SAN not configured. 2. Subject can contain a multi- valued CN. For multi-valued RDNs, follow the format "CN=value1, CN=value2" "subjectCommonName": "\$FQDN\$" subjectOrgUnit Certificate organizational unit (OU) NOTE: Subject can contain a multi-valued OU. For multi- valued RDNs, follow the format "OU=value1, OU=value2" "subjectOrgUnit": "Engineering" subjectOrg Certificate organization (O) NOTE: Subject can contain a multi-valued O fields. For multi-valued RDNs, follow the format "O=value1, O=value2" "subjectOrg": "Cisco" subjectCity Certificate city or locality (L) "subjectCity": "San Jose" subjectState Certificate state (ST) "subjectState": "California" subjectCountry Certificate country (C) "subjectCountry": "US" sanDNS Array of SAN (Subject Alternative Name) DNS entries "sanDNS": ["ise.example.com"] sanIP Array of SAN IP entries "sanIP": ["1.1.1.1"] sanURI Array of SAN URI entries "sanURI": ["https://1.1.1.1"] keyType \* required Algorithm to use for certificate public key creation (required). "keyType": "RSA" keyLength \* required Bit size of the public

key (required). “keyLength”: “4096” digestType \* required Digest to sign with (required). “digestType”: “SHA-384” certificatePolicies Certificate policy OID or list of OIDs that the certificate should conform to. Use comma or space to separate the OIDs. “certificatePolicies”: “Certificate Policies” expirationTTL \* required Certificate expiration value (required). NOTE: Expiration TTL should be within Unix time limit “expirationTTL”: 2 expirationTTLUnit \* required Certificate expiration unit (required). “expirationTTLUnit”: “years” admin Use certificate to authenticate the Cisco ISE Admin Portal “admin”: false eap Use certificate for EAP protocols that use SSL/TLS tunneling “eap”: false radius Use certificate for RADSec server “radius”: false pxgrid Use certificate for the pxGrid Controller “pxgrid”: false saml Use certificate for SAML Signing “saml”: false portal Use certificate for portal “portal”: false portalGroupTag Portal Group Tag for using certificate with portal role “portalGroupTag”: “Default Portal Certificate Group” allowReplacementOfPortalGroupTag \* required Allow Replacement of Portal Group Tag (required). “allowReplacementOfPortalGroupTag”: true allowWildcardCertificates Allow use of WildCards in certificates “allowWildcardCertificates”: false allowReplacementOfCertificates \* required Allow replacement of certificates (required). “allowReplacementOfCertificates”: true allowExtendedValidity \* required Allow generation of self-signed certificate with validity greater than 398 days (required). “allowExtendedValidity”: true allowRoleTransferForSameSubject \* required Allow the transfer of roles to certificates with same subject (required). If the matching certificate on Cisco ISE has either admin or portal role and if request has admin or portal role selected along with allowRoleTransferForSameSubject parameter as true, self- signed certificate would be generated with both admin and portal role enabled “allowRoleTransferForSameSubject”: true allowPortalTagTransferForSameSubject \* required Acquire the group tag of the matching certificate (required). If the request portal group tag is different from the group tag of matching certificate (If matching certificate in Cisco ISE has portal role enabled), self- signed certificate would be generated by acquiring the group tag of matching certificate if allowPortalTagTransferForSameSubject parameter is true “allowPortalTagTransferForSameSubject”: true allowSanDnsBadName \* required Allow generation of self-signed certificate with bad Common Name & SAN Values [like “example.org.”,”invalid.”,”test.”,”localhost” ,etc.] (required). SECURITY ALERT: It is recommended to use “allowSanDnsBadName”: false to avoid generation of certificates with bad Common Name & SAN Values which are not secure “allowSanDnsBadName”: true allowSanDnsNonResolvable \* required Allow generation of self-signed certificate with non resolvable Common Name or SAN Values (required). “allowSanDnsNonResolvable”: true ROLE DEFAULT WARNING Admin False Enabling Admin role for this certificate causes an application server restart on the selected node. EAP Authentication False Only one system certificate can be used for EAP. Assigning EAP to this certificate removes the assignment from another certificate. RADIUS DTLS False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate removes the assignment from another certificate. SAML False SAML cannot be used with other Usage. .

### Parameters

- **admin** (*boolean*) – Use certificate to authenticate the Cisco ISE Admin Portal, property of the request body.
- **allow\_extended\_validity** (*boolean*) – Allow generation of self-signed certificate with validity greater than 398 days, property of the request body.
- **allow\_portal\_tag\_transfer\_for\_same\_subject** (*boolean*) – Allow overwriting the portal tag from matching certificate of same subject, property of the request body.
- **allow\_replacement\_of\_certificates** (*boolean*) – Allow Replacement of certificates, property of the request body.
- **allow\_replacement\_of\_portal\_group\_tag** (*boolean*) – Allow Replacement of Portal Group Tag, property of the request body.
- **allow\_role\_transfer\_for\_same\_subject** (*boolean*) – Allow transfer of roles for certificate with matching subject, property of the request body.
- **allow\_san\_dns\_bad\_name** (*boolean*) – Allow usage of SAN DNS Bad name,

property of the request body.

- **allow\_san\_dns\_non\_resolvable** (*boolean*) – Allow use of non resolvable Common Name or SAN Values, property of the request body.
- **allow\_wild\_card\_certificates** (*boolean*) – Allow Wildcard Certificates, property of the request body.
- **certificate\_policies** (*string*) – Certificate Policies, property of the request body.
- **digest\_type** (*string*) – Digest to sign with, property of the request body. Available values are ‘SHA-256’, ‘SHA-384’ and ‘SHA-512’.
- **eap** (*boolean*) – Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.
- **expiration\_ttl** (*integer*) – Certificate expiration value, property of the request body.
- **expiration\_ttl\_unit** (*string*) – Certificate expiration unit, property of the request body. Available values are ‘days’, ‘months’, ‘weeks’ and ‘years’.
- **host\_name** (*string*) – Hostname of the Cisco ISE node in which self-signed certificate should be generated., property of the request body.
- **key\_length** (*string*) – Bit size of public key, property of the request body. Available values are ‘1024’, ‘2048’, ‘4096’ and ‘512’.
- **key\_type** (*string*) – Algorithm to use for certificate public key creation, property of the request body. Available values are ‘ECDSA’ and ‘RSA’.
- **name** (*string*) – Friendly name of the certificate., property of the request body.
- **portal** (*boolean*) – Use for portal, property of the request body.
- **portal\_group\_tag** (*string*) – Set Group tag, property of the request body.
- **pxgrid** (*boolean*) – Use certificate for the pxGrid Controller, property of the request body.
- **radius** (*boolean*) – Use certificate for the RADSec server, property of the request body.
- **saml** (*boolean*) – Use certificate for SAML Signing, property of the request body.
- **san\_dns** (*list*) – Array of SAN (Subject Alternative Name) DNS entries, property of the request body (list of strings).
- **san\_ip** (*list*) – Array of SAN IP entries, property of the request body (list of strings).
- **san\_uri** (*list*) – Array of SAN URI entries, property of the request body (list of strings).
- **subject\_city** (*string*) – Certificate city or locality (L), property of the request body.
- **subject\_common\_name** (*string*) – Certificate common name (CN), property of the request body.
- **subject\_country** (*string*) – Certificate country (C), property of the request body.
- **subject\_org** (*string*) – Certificate organization (O), property of the request body.
- **subject\_org\_unit** (*string*) – Certificate organizational unit (OU), property of the request body.

- **subject\_state** (*string*) – Certificate state (ST), property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
import_system_certificate (admin=None, allow_extended_validity=None,
                           allow_out_of_date_cert=None, al-
                           low_portal_tag_transfer_for_same_subject=None,
                           allow_replacement_of_certificates=None, al-
                           low_replacement_of_portal_group_tag=None, al-
                           low_role_transfer_for_same_subject=None, al-
                           low_sha1_certificates=None, allow_wild_card_certificates=None,
                           data=None, eap=None, ims=None, name=None, pass-
                           word=None, portal=None, portal_group_tag=None, pri-
                           vate_key_data=None, pxgrid=None, radius=None, saml=None,
                           validate_certificate_extensions=None, headers=None, pay-
                           load=None, active_validation=True, **query_parameters)
```

**Import an X509 certificate as a system certificate. NOTE:** The certificate may have a validity period longer than 398 days. It may be untrusted by many browsers. NOTE: Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following parameters are used in POST body

| PARAMETER  | DESCRIPTION   | EXAMPLE |
|------------|---|---------|
| name       | Friendly name of the certificate.                                 |         |
| "name"     | "System certificate"  |         |
| password   | * required Password of the certificate to be imported (required). |         |
| "password" | "certificate password"  |         |
| data       | * required Plain-text contents of the certificate file.           |         |

Every space needs to be replaced with newline escape sequence (

) (required). Use awk 'NF {sub(/

/, ""); printf "%sn", \$0;}' <<your .pem file>> to extract data from certificate file. "data": "Plain-text contents of the certificate file."

| PARAMETER      | DESCRIPTION   | EXAMPLE |
|----------------|---|---------|
| privateKeyData | * required Plain-text contents of the private key file. |         |

Every space needs to be replaced with newline escape sequence (

) (required). Use awk 'NF {sub(/

```
/, ""); printf "%sn", $0;}' <<your .pem file>> to extract privateKeyData from private key file. "data":
"Plain-text contents of the private key file." allowOutOfDateCert * required Allow out of date
certificates (required). SECURITY ALERT: It is recommended to use "allowOutOfDateCert":
false to avoid import of expired certificates (not Secure). "allowOutOfDateCert": true allow-
SHA1certificates * required Allow import of certificate with signature that uses the SHA-1 hash-
ing algorithm and is considered less secure (required). SECURITY ALERT: It is recommended to
use "allowSHA1certificates": false to avoid import of SHA1 based certificates (less secure). "allow-
SHA1certificates": true allowExtendedValidity * required Allow the certificates greater than validity
of 398 days (required). "allowExtendedValidity": true allowRoleTransferForSameSubject Allow the
transfer of roles to certificates with same subject "allowRoleTransferForSameSubject": true allow-
PortalTagTransferForSameSubject Acquire the group tag of the matching certificate "allowPortalT-
agTransferForSameSubject": true admin Use certificate to authenticate the Cisco ISE Admin Portal
"admin": false eap Use certificate for EAP protocols that use SSL/TLS tunneling "eap": false radius
Use certificate for RADSec server "radius": false pxgrid Use certificate for the pxGrid Controller "px-
grid": false ims Use certificate for the Cisco ISE Messaging Service "ims": false saml Use certificate
for SAML Signing "saml": false portal Use certificate for portal "portal": false portalGroupTag Portal
Group Tag for using certificate with portal role "portalGroupTag": "Default Portal certificate Group"
allowReplacementOfPortalGroupTag * required Allow Replacement of Portal Group Tag (required).
"allowReplacementOfPortalGroupTag": true allowWildcardcertificates Allow use of WildCards in
certificates "allowWildcardcertificates": false validatecertificateExtensions Validate certificate exten-
sions "validatecertificateExtensions": false Following roles can be used in any combinations ROLE
DEFAULT WARNING Admin False Enabling Admin role for this certificate causes an application
server restart on the selected node. Note: Make sure required Certificate Chain is imported under
Trusted Certificates EAP Authentication False Only one system certificate can be used for EAP. As-
signing EAP to this certificate removes the assignment from another certificate. Note: Make sure
required Certificate Chain is imported under Trusted Certificates RADIUS DTLS False Only one sys-
tem certificate can be used for DTLS. Assigning DTLS to this certificate removes the assignment from
another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates
SAML False SAML cannot be used with other Usage. Enabling SAML unchecks all other Usage.
Note: Make sure required Certificate Chain is imported under Trusted Certificates .
```

#### Args:

- admin(boolean):** Use certificate to authenticate the Cisco ISE Admin Portal, property of the request body.
- allow\_extended\_validity(boolean):** Allow import of certificates with validity greater than 398 days (required), property of the request body.
- allow\_out\_of\_date\_cert(boolean):** Allow out of date certificates (required), property of the request body.
- allow\_portal\_tag\_transfer\_for\_same\_subject(boolean):** Allow overwriting the portal tag from matching certificate of same subject, property of the request body.
- allow\_replacement\_of\_certificates(boolean):** Allow Replacement of certificates (required), property of the request body.
- allow\_replacement\_of\_portal\_group\_tag(boolean):** Allow Replacement of Portal Group Tag (required), property of the request body.
- allow\_role\_transfer\_for\_same\_subject(boolean):** Allow transfer of roles for certificate with matching subject , property of the request body.
- allow\_sha1\_certificates(boolean):** Allow SHA1 based certificates (required), property of the request body.
- allow\_wild\_card\_certificates(boolean):** Allow Wildcard certificates, property of the request body.

**data(string):** Certificate Content (required), property of the request body.

**eap(boolean):** Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.

**ims(boolean):** Use certificate for the Cisco ISE Messaging Service, property of the request body.

**name(string):** Name of the certificate, property of the request body.

**password(string):** Certificate Password (required), property of the request body.

**portal(boolean):** Use for portal, property of the request body.

**portal\_group\_tag(string):** Set Group tag, property of the request body.

**private\_key\_data(string):** Private Key data (required), property of the request body.

**pxgrid(boolean):** Use certificate for the pxGrid Controller, property of the request body.

**radius(boolean):** Use certificate for the RADSec server, property of the request body.

**saml(boolean):** Use certificate for SAML Signing, property of the request body.

**validate\_certificate\_extensions(boolean):** Validate certificate extensions, property of the request body.

**headers(dict):** Dictionary of HTTP Headers to send with the Request .

**payload(dict):** A JSON serializable Python object to send in the body of the Request.

**active\_validation(bool):** Enable/Disable payload validation. Defaults to True.

**\*\*query\_parameters:** Additional query parameters (provides support for parameters that may be added in the future).

Returns:

RestResponse: REST response with following properties:

- **headers(MyDict):** response headers.
- **response(MyDict):** response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes):** representation of the request's response
- **text(str):** representation of the request's response

**Raises:** TypeError: If the parameter types are incorrect. MalformedRequest: If the request body created is invalid. ApiError: If the Identity Services Engine cloud returns an error.

**get\_system\_certificates** (*host\_name, filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT .

#### Parameters

- **host\_name** (*basestring*) – hostName path parameter. Name of the host of which system certificates should be returned.
- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.

- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_system\_certificates\_generator** (*host\_name*, *filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT .

### Parameters

- **host\_name** (*basestring*) – hostName path parameter. Name of the host of which system certificates should be returned.
- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.

- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request’s response
  - **text**(str): representation of the request’s response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_system\_certificate\_by\_id** (*host\_name*, *id*, *headers=None*, *\*\*query\_parameters*)

This API provides details of a System Certificate of a particular node based on given HostName and ID.

### Parameters

- **host\_name** (*basestring*) – hostName path parameter. Name of the host of which system certificates should be returned.
- **id** (*basestring*) – id path parameter. ID of the system certificate.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_system\_certificate** (*host\_name*, *id*, *admin=None*, *allow\_portal\_tag\_transfer\_for\_same\_subject=None*, *allow\_replacement\_of\_portal\_group\_tag=None*, *allow\_role\_transfer\_for\_same\_subject=None*, *description=None*, *eap=None*, *expiration\_ttl\_period=None*, *expiration\_ttl\_units=None*, *ims=None*, *name=None*, *portal=None*, *portal\_group\_tag=None*, *pxgrid=None*, *radius=None*, *renew\_self\_signed\_certificate=None*, *saml=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Update a System Certificate. NOTE: Renewing a certificate causes an application server restart on the selected node. NOTE: Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following parameters are used in POST body

| PARAMETER                            | DESCRIPTION  | EXAMPLE  |
|--------------------------------------|--|--|
| name                                 | Friendly name of the certificate.  | "name": "System Certificate"                         |
| description                          | Description of the certificate   | "description": "Description of certificate"          |
| admin                                | Use certificate to authenticate the Cisco ISE Admin Portal                       | "admin": false                                       |
| eap                                  | Use certificate for EAP protocols that use SSL/TLS tunneling                     | "eap": false   |
| radius                               | Use certificate for RADIUS server  | "radius": false                                      |
| pxgrid                               | Use certificate for the pxGrid Controller  | "pxgrid": false                                      |
| ims                                  | Use certificate for the Cisco ISE Messaging Service                              | "ims": false   |
| saml                                 | Use certificate for SAML Signing   | "saml": false  |
| portal                               | Use certificate for portal   | "portal": false                                      |
| portalGroupTag                       | Portal Group Tag for using certificate with portal role                          | "portalGroupTag": "Default Portal Certificate Group" |
| allowReplacementOfPortalGroupTag     | * required Allow Replacement of Portal Group Tag (required).                     | "allowReplacementOfPortalGroupTag": true             |
| allowRoleTransferForSameSubject      | * required Allow transfer of roles to certificates with same subject (required). | "allowRoleTransferForSameSubject": true              |
| allowPortalTagTransferForSameSubject | * required Acquire group tag of the matching certificate (required).             | "allowPortalTagTransferForSameSubject": true         |
| renewSelfSignedCertificate           | Renew Self- signed Certificate   | "renewSelfSignedCertificate": false                  |
| expirationTTLPeriod                  | Expiration Period  | "expirationTTLPeriod": 365                           |
| expirationTTLUnits                   | Expiration Units in one of the below formats days / weeks / months / years       | "expirationTTLUnits": "days"                         |

Following roles can be used in any combinations

| ROLE   | DEFAULT        | WARNING   |
|--------|----------------|---|
| Admin  | False          | Enabling Admin role for this certificate causes an application server restart on the selected node. Note: Make sure required Certificate Chain is imported under Trusted Certificates   |
| EAP    | Authentication | False Only one system certificate can be used for EAP. Assigning EAP to this certificate removes the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates   |
| RADIUS | DTLS           | False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate removes the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates |
| SAML   | False          | SAML cannot be used with other Usage. Enabling SAML unchecks all other Usage. Note: Make sure required Certificate Chain is imported under Trusted Certificates   |

**Parameters**

- **`admin (boolean)`** – Use certificate to authenticate the Cisco ISE Admin Portal, property of the request body.

- **allow\_portal\_tag\_transfer\_for\_same\_subject** (*boolean*) – Allow overwriting the portal tag from matching certificate of same subject, property of the request body.
- **allow\_replacement\_of\_portal\_group\_tag** (*boolean*) – Allow Replacement of Portal Group Tag (required), property of the request body.
- **allow\_role\_transfer\_for\_same\_subject** (*boolean*) – Allow transfer of roles for certificate with matching subject, property of the request body.
- **description** (*string*) – Description of System Certificate, property of the request body.
- **eap** (*boolean*) – Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.
- **expiration\_ttl\_period** (*integer*) – expirationTTLPeriod, property of the request body.
- **expiration\_ttl\_units** (*string*) – expirationTTLUnits, property of the request body. Available values are ‘days’, ‘months’, ‘weeks’ and ‘years’.
- **ims** (*boolean*) – Use certificate for the Cisco ISE Messaging Service, property of the request body.
- **name** (*string*) – Name of the certificate, property of the request body.
- **portal** (*boolean*) – Use for portal, property of the request body.
- **portal\_group\_tag** (*string*) – Set Group tag, property of the request body.
- **pxgrid** (*boolean*) – Use certificate for the pxGrid Controller, property of the request body.
- **radius** (*boolean*) – Use certificate for the RADSec server, property of the request body.
- **renew\_self\_signed\_certificate** (*boolean*) – Renew Self- signed Certificate, property of the request body.
- **saml** (*boolean*) – Use certificate for SAML Signing, property of the request body.
- **id** (*basestring*) – id path parameter. ID of the System Certificate to be updated.
- **host\_name** (*basestring*) – hostName path parameter. Name of Host whose certificate needs to be updated.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_system_certificate_by_id`** (*host\_name, id, headers=None, \*\*query\_parameters*)

This API deletes a System Certificate of a particular node based on given HostName and ID.

**Parameters**

- **`host_name`** (*basestring*) – hostName path parameter. Name of the host from which System Certificate needs to be deleted.
- **`id`** (*basestring*) – id path parameter. ID of the System Certificate to be deleted.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_trusted_certificates`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT status Allowed values: enabled, disabled Supported Operators: EQ, NEQ .

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_trusted\_certificates\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT status Allowed values: enabled, disabled Supported Operators: EQ, NEQ .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request’s response
  - **text**(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**export\_trusted\_certificate** (*id*, *dirpath=None*, *save\_file=None*, *filename=None*, *headers=None*, *\*\*query\_parameters*)

The response of this API carries a trusted certificate file mapped to the requested ID.

### Parameters

- **id** (*basestring*) – id path parameter. ID of the Trusted Certificate to be exported.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

```
import_trust_certificate (allow_basic_constraint_cafalse=None, allow_out_of_date_cert=None, allow_sha1_certificates=None, data=None, description=None, name=None, trust_for_certificate_based_admin_auth=None, trust_for_cisco_services_auth=None, trust_for_client_auth=None, trust_for_ise_auth=None, validate_certificate_extensions=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

**Import an X509 certificate as a trust certificate. NOTE:** Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following parameters are used in POST body  
PARAMETER DESCRIPTION EXAMPLE name Friendly name of the certificate “name”: “Trust Certificate” description Description of the certificate “description”: “Imported Trust Certificate” data \* required Plain-text contents of the certificate file. Every space needs to be replaced with newline escape sequence (

) (required). Use awk ‘NF {sub(/ /, “”);

```
printf “%sn”, $0;}’ <<your .pem file>> to extract data from certificate file. “data”: “Plain-text contents of the certificate file.” allowOutOfDateCert * required Allow out of date certificates (required). SECURITY ALERT: It is recommended to use “allowOutOfDateCert”: false to avoid import of expired certificates (not Secure). “allowOutOfDateCert”: true allowSHA1Certificates * required Allow import of certificate with signature that uses SHA-1 hashing algorithm and is considered less secure (required). SECURITY ALERT: It is recommended to use “allowSHA1Certificates”: false to avoid import of SHA1 based certificates (less secure). “allowSHA1Certificates”: true allowBasicConstraintCAFalse * required Allow certificates with Basic Constraints CA Field as False (required). SECURITY ALERT: It is recommended to use “allowBasicConstraintCAFalse”: false to avoid import of certificates with Basic Constraints CA Field as False (not Secure). “allowBasicConstraintCAFalse”: true trustForIseAuth Trust for authentication within Cisco ISE “trustForIseAuth”: false trustForClientAuth Trust for client authentication and Syslog “trustForClientAuth”: false trustForCertificateBasedAdminAuth Trust for certificate based Admin authentication “trustForCertificateBasedAdminAuth”: false trustForCiscoServicesAuth Trust for authentication of Cisco Services “trustForCiscoServicesAuth”: false validateCertificateExtensions Validate extensions for trust certificate “validateCertificateExtensions”: false NOTE: If name is not set, a default name with the following format is used: common- name#issuer#nnnnn where “nnnnn” is a unique number. You can always change the friendly name later by editing the certificate. You must choose how this certificate is trusted in Cisco ISE. The objective here is to distinguish between certificates that are used for trust within an Cisco ISE deployment and public certificates that are used to trust Cisco services. Typically, you do not want to use a given certificate for both purposes. Trusted For Usage Authentication within Cisco ISE Use “trustForIseAuth”:true if the certificate is used for trust within Cisco ISE, such as for secure communication between Cisco ISE nodes Client authentication and Syslog Use “trustForClientAuth”:true if the certificate is to be used for authentication of endpoints that contact Cisco ISE over the EAP protocol. Also check this box if certificate is used to trust a Syslog server. Make sure to have keyCertSign bit asserted under KeyUsage extension for this certificate. Note: “” can be set true only if the “trustForIseAuth” has been set true. Certificate based admin authentication Use “trustForCertificateBasedAdminAuth”:true if the certificate is used for trust within Cisco ISE, such as for secure communication between Cisco ISE nodes
```

Note: “trustForCertificateBasedAdminAuth” can be set true only if “trustForIseAuth” and “trustForClientAuth” are true. Authentication of Cisco Services Use “trustForCiscoServicesAuth”:true if the certificate is to be used for trusting external Cisco services, such as Feed Service. .

#### Args:

- allow\_basic\_constraint\_cafalse(boolean):** Allow certificates with Basic Constraints CA Field as False (required), property of the request body.
- allow\_out\_of\_date\_cert(boolean):** Allow out of date certificates (required), property of the request body.
- allow\_sha1\_certificates(boolean):** Allow SHA1 based certificates (required), property of the request body.
- data(string):** Certificate content (required), property of the request body.
- description(string):** Description of the certificate, property of the request body.
- name(string):** Name of the certificate, property of the request body.
- trust\_for\_certificate\_based\_admin\_auth(boolean):** Trust for Certificate based Admin authentication, property of the request body.
- trust\_for\_cisco\_services\_auth(boolean):** Trust for authentication of Cisco Services, property of the request body.
- trust\_for\_client\_auth(boolean):** Trust for client authentication and Syslog, property of the request body.
- trust\_for\_ise\_auth(boolean):** Trust for authentication within Cisco ISE, property of the request body.
- validate\_certificate\_extensions(boolean):** Validate trust certificate extension, property of the request body.
- headers(dict):** Dictionary of HTTP Headers to send with the Request .
- payload(dict):** A JSON serializable Python object to send in the body of the Request.
- active\_validation(bool):** Enable/Disable payload validation. Defaults to True.
- \*\*query\_parameters:** Additional query parameters (provides support for parameters that may be added in the future).

#### Returns:

RestResponse: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Raises:** TypeError: If the parameter types are incorrect. MalformedRequest: If the request body created is invalid. ApiError: If the Identity Services Engine cloud returns an error.

**get\_trusted\_certificate\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API can displays details of a Trust Certificate based on a given ID.

#### Parameters



- **id** (*basestring*) – id path parameter. ID of the trust certificate.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_trusted_certificate (id, authenticate_before_crl_received=None, auto-  
    automatic_crl_update=None, automatic_crl_update_period=None,  
    automatic_crl_update_units=None, crl_distribution_url=None,  
    crl_download_failure_retries=None,  
    crl_download_failure_retries_units=None, description=None,  
    download_crl=None, enable_ocsp_validation=None, enable_server_identity_check=None, ignore_crl_expiration=None,  
    name=None, non_automatic_crl_update_period=None,  
    non_automatic_crl_update_units=None, reject_if_no_status_from_ocs_p=None, reject_if_unreachable_from_ocs_p=None, selected_ocsp_service=None, status=None, trust_for_certificate_based_admin_auth=None, trust_for_cisco_services_auth=None, trust_for_client_auth=None, trust_for_ise_auth=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Update a trusted certificate present in Cisco ISE trust store. Following parameters are used in PUT request body

| PARAMETER                         | DESCRIPTION  | EXAMPLE  |
|-----------------------------------|--|--|
| name                              | * required Friendly name of the certificate (required).      | "Trust Certificate"                              |
| status                            | Status of the certificate                                    | "Enabled"  |
| description                       | Description of the certificate                               | "Certificate for secure connection to cisco.com" |
| trustForIseAuth                   | Trust for authentication within Cisco ISE                    | false  |
| trustForClientAuth                | Trust for client authentication and Syslog                   | false  |
| trustForCertificateBasedAdminAuth | Trust for certificate based Admin authentication             | false  |
| trustForCiscoServiceAuth          | Trust for authentication of Cisco Services                   | false  |
| enableOCSPValidation              | Switch to enable or disable OCSP Validation                  | false  |
| selectedOCSPService               | Name of selected OCSP Service                                | "INTERNAL_OCSP_SERVICE"                          |
| rejectIfNoStatusFromOCSP          | Switch to reject certificate if there is no status from OCSP | false  |
| rejectIfUnreachableFromOCSP       | Switch to reject certificate if unreachable from OCSP        | false  |
| downloadCRL                       | Switch to enable or disable download of CRL                  | false  |
| crlDistributionUrl                | Certificate Revocation List Distribution URL                 | "CRL"  |



distribution URL” automaticCRLUpdate Switch to enable or disable automatic CRL update “automaticCRLUpdate”: false automaticCRLUpdatePeriod Automatic CRL update period “automaticCRLUpdatePeriod”: 5 automaticCRLUpdateUnits Unit of time for automatic CRL update “automaticCRLUpdateUnits”: “Minutes” nonAutomaticCRLUpdatePeriod Non automatic CRL update period “nonAutomaticCRLUpdatePeriod”: 1 nonAutomaticCRLUpdateUnits Unit of time of non automatic CRL update “nonAutomaticCRLUpdateUnits”: “Hours” crlDownloadFailureRetries If CRL download fails, wait time before retry “crlDownloadFailureRetries”: 10 crlDownloadFailureRetriesUnits Unit of time before retry if CRL download fails “crlDownloadFailureRetriesUnits”: “Minutes” enableServerIdentityCheck Switch to enable or disable verification if HTTPS or LDAP server certificate name fits the configured server URL “enableServerIdentityCheck”: false authenticateBeforeCRLReceived Switch to enable or disable CRL Verification if CRL is not Received “authenticateBeforeCRLReceived”: false ignoreCRLEExpiration Switch to enable or disable ignore CRL Expiration “ignoreCRLEExpiration”: false Trusted For Usage Authentication within Cisco ISE Use “trustForIseAuth”:true if the certificate is used for trust within Cisco ISE, such as for secure communication between Cisco ISE nodes Client authentication and Syslog Use “trustForClientAuth”:true if the certificate is to be used for authentication of endpoints that contact Cisco ISE over the EAP protocol. Also check this box if certificate is used to trust a Syslog server. Make sure to have keyCertSign bit asserted under KeyUsage extension for this certificate. Note: “trustForClientAuth” can be set true only if the “trustForIseAuth” has been set true. Certificate based admin authentication Use “trustForCertificateBasedAdminAuth”:true if the certificate is used for trust within Cisco ISE, such as for secure communication between Cisco ISE nodes Note: “trustForCertificateBasedAdminAuth” can be set true only if “trustForIseAuth” and “trustForClientAuth” are true. Authentication of Cisco Services Use “trustForCiscoServicesAuth”:true if the certificate is to be used for trusting external Cisco services, such as Feed Service. OSCP Configuration Usage Validation against OSCP service Use “enableOCSPValidation”:true to validate the certificate against OSCP service mentioned in the field selectedOCSPService OSCP Service name Use “selectedOCSPService”:“Name of OSCP Service” Name of the OSCP service against which the certificate should be validated Note: “selectedOCSPService” value is used if “enableOCSPValidation” has been set true. Reject the request if OSCP returns UNKNOWN status Use “rejectIfNoStatusFromOCSP”:true to reject the certificate if the OSCP service returns UNKNOWN status Note: “rejectIfNoStatusFromOCSP:true” can be used only if “enableOCSPValidation” has been set true. Reject the request if OSCP Responder is unreachable Use “rejectIfUnreachableFromOCSP”:true to reject the certificate if the OSCP service is unreachable. Note: “rejectIfUnreachableFromOCSP:true” can be used only if “enableOCSPValidation” has been set true. Certificate Revocation List Configuration Usage Validation against CRL Use “downloadCRL”:true to validate the certificate against CRL downloaded from URL mentioned in the field crlDistributionUrl CRL distribution url Use “crlDistributionUrl” to specify the URL from where the CRL should be downloaded Note: “crlDistributionUrl” value is used if “downloadCRL” has been set true. Retrieve CRL time Use “automaticCRLUpdate”:true and automaticCRLUpdatePeriod, automaticCRLUpdatePeriod to set the time before which CRL is automatically retrieved prior to expiration Use “nonAutomaticCRLUpdatePeriod, nonAutomaticCRLUpdateUnits to set the time period for CRL retrieval in loop. Note: All the above fields can be used only if “downloadCRL” has been set true. If download fails Use “crlDownloadFailureRetries” and “crlDownloadFailureRetriesUnits” to set retry time period if CRL download fails Note: “crlDownloadFailureRetries” and “crlDownloadFailureRetriesUnits” can be used only if “downloadCRL” has been set true. Enable Server Identity Check Use “enableServerIdentityCheck”:true to verify that HTTPS or LDAPS server certificate name fits the configured server URL Note: “enableServerIdentityCheck:true” can be used only if “downloadCRL” has been set true. Bypass CRL Verification if CRL is not Received Use “authenticateBeforeCRLReceived”:true to bypass CRL Verification if CRL is not Received Note: “authenticateBeforeCRLReceived:true” can be used only if “downloadCRL” has been set true. Ignore that CRL is not yet valid or has expired Use “ignoreCRLEExpiration”:true to ignore if CRL is not yet valid or expired Note: “ignoreCRLEExpiration:true” can be used only if “downloadCRL” has been set true. Note: boolean properties accept integers values as well, with 0 considered as false and other values being considered as true .

#### Parameters

- **authenticate\_before\_crl\_received**(*boolean*) – Switch to enable or disable CRL verification if CRL is not received, property of the request body.

- **automatic\_crl\_update** (*boolean*) – Switch to enable or disable automatic CRL update, property of the request body.
- **automatic\_crl\_update\_period** (*integer*) – Automatic CRL update period, property of the request body.
- **automatic\_crl\_update\_units** (*string*) – Unit of time for automatic CRL update, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **crl\_distribution\_url** (*string*) – CRL Distribution URL, property of the request body.
- **crl\_download\_failure\_retries** (*integer*) – If CRL download fails, wait time before retry, property of the request body.
- **crl\_download\_failure\_retries\_units** (*string*) – Unit of time before retry if CRL download fails, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **description** (*string*) – Description for trust certificate, property of the request body.
- **download\_crl** (*boolean*) – Switch to enable or disable download of CRL, property of the request body.
- **enable\_ocsp\_validation** (*boolean*) – Switch to enable or disable OCSP Validation, property of the request body.
- **enable\_server\_identity\_check** (*boolean*) – Switch to enable or disable verification if HTTPS or LDAP server certificate name fits the configured server URL, property of the request body.
- **ignore\_crl\_expiration** (*boolean*) – Switch to enable or disable ignore CRL expiration, property of the request body.
- **name** (*string*) – Friendly name of the certificate, property of the request body.
- **non\_automatic\_crl\_update\_period** (*integer*) – Non automatic CRL update period, property of the request body.
- **non\_automatic\_crl\_update\_units** (*string*) – Unit of time of non automatic CRL update, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **reject\_if\_no\_status\_from\_ocs\_p** (*boolean*) – Switch to reject certificate if there is no status from OCSP, property of the request body.
- **reject\_if\_unreachable\_from\_ocs\_p** (*boolean*) – Switch to reject certificate if unreachable from OCSP, property of the request body.
- **selected\_ocsp\_service** (*string*) – Name of selected OCSP Service, property of the request body.
- **status** (*string*) – status, property of the request body. Available values are ‘Disabled’ and ‘Enabled’.
- **trust\_for\_certificate\_based\_admin\_auth** (*boolean*) – Trust for Certificate based Admin authentication, property of the request body.
- **trust\_for\_cisco\_services\_auth** (*boolean*) – Trust for authentication of Cisco Services, property of the request body.

- **trust\_for\_client\_auth** (*boolean*) – Trust for client authentication and Syslog, property of the request body.
- **trust\_for\_ise\_auth** (*boolean*) – Trust for authentication within Cisco ISE, property of the request body.
- **id** (*basestring*) – id path parameter. ID of the trust certificate.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_trusted\_certificate\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a Trust Certificate from Trusted Certificate Store based on a given ID.

#### Parameters

- **id** (*basestring*) – id path parameter. ID of the Trusted Certificate to be deleted.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## clear\_threats\_and\_vulnerabilities

### class ClearThreatsAndVulnerabilities

Identity Services Engine ClearThreatsAndVulnerabilities API (version: 3.1.1).

Wraps the Identity Services Engine ClearThreatsAndVulnerabilities API and exposes the API as native Python methods that return native Python objects.

Clear Threats and Vulnerabilities API allows the user to delete the ThreatContext and Threat events that are associated with the given MAC Address.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Re-quired | Description                         | Example Values                               |
|---------------|--------|-----------|-------------------------------------|--|
| name          | String | Yes       | Resource Name                       |  |
| id            | String | Yes       | Resource UUID value                 |  |
| macAd-dresses | String | Yes       | One or more endpoint MAC ad-dresses | [ “00:00:00:00:00:F2”, “00:00:00:00:00:F3” ] |

**clear\_threats\_and\_vulnerabilities** (*mac\_addresses=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to delete the ThreatContext and Threat events that are associated with the given MAC Address.

#### Parameters

- **mac\_addresses** (*string*) – macAddresses, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**clear** (*mac\_addresses=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *clear\_threats\_and\_vulnerabilities*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the clear threats and vulnerabilities.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## consumer

### class Consumer

Identity Services Engine Consumer API (version: 3.1.1).

Wraps the Identity Services Engine Consumer API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**create\_account** (*node\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                  *\*\*query\_parameters*)

AccountCreate.

#### Parameters

- **node\_name** (*string*) – nodeName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*node\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for [create\\_account](#)

**activate\_account** (*description=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 AccountActivate.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**lookup\_service** (*name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 ServiceLookup.

#### Parameters

- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`access_secret`** (*peer\_node\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
AccessSecret.

#### Parameters

- **`peer_node_name`** (*string*) – peerNodeName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## **device\_administration\_authentication\_rules**

### **class DeviceAdministrationAuthenticationRules**

Identity Services Engine Device Administration - Authentication Rules API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Authentication Rules API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_authentication_rules`** (*policy\_id, headers=None, \*\*query\_parameters*)  
Device Admin Get authentication rules.

#### Parameters



- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_authentication\_rules*

**create\_device\_admin\_authentication\_rule** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Create authentication rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authentication policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

### Parameters

- **identity\_source\_name** (*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_device\_admin\_authentication\_rule*

**reset\_hit\_counts\_device\_admin\_authentication\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Reset HitCount for Authentication Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_device\_admin\_authentication\_rules*

**get\_device\_admin\_authentication\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Get rule attributes.

#### Parameters

- **policy\_id**(*basestring*) – policyId path parameter. Policy id.
- **id**(*basestring*) – id path parameter. Rule id.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_authentication\_rule\_by\_id*

**update\_device\_admin\_authentication\_rule\_by\_id**(*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update rule.

#### Parameters

- **identity\_source\_name**(*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail**(*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.

- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_authentication\_rule\_by\_id*

**delete\_device\_admin\_authentication\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete rule.

### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *`delete_device_admin_authentication_rule_by_id`*

**device\_administration\_authorization\_exception\_rules****class DeviceAdministrationAuthorizationExceptionRules**

Identity Services Engine Device Administration - Authorization Exception Rules API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Authorization Exception Rules API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_local_exception_rules`** (*policy\_id, headers=None, \*\*query\_parameters*)

Device Admin Get local exception rules.

**Parameters**

- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_device_admin_local_exception_rules`

**create\_device\_admin\_local\_exception\_rule** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Create local authorization exception rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `create_device_admin_local_exception_rule`

**reset\_hit\_counts\_device\_admin\_local\_exceptions** (*policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Reset HitCount for local exceptions.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_device\_admin\_local\_exceptions*

**get\_device\_admin\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Get local exception rule attributes.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_local\_exception\_rule\_by\_id*

**update\_device\_admin\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update local exception rule.

**Parameters**

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**update\_by\_id**(*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for [update\\_device\\_admin\\_local\\_exception\\_rule\\_by\\_id](#)

**delete\_device\_admin\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete local exception rule.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for [delete\\_device\\_admin\\_local\\_exception\\_rule\\_by\\_id](#)

## device\_administration\_authorization\_global\_exception\_rules

**class DeviceAdministrationAuthorizationGlobalExceptionRules**

Identity Services Engine Device Administration - Authorization Global Exception Rules API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Authorization Global Exception Rules API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_policy\_set\_global\_exception\_rules** (*headers=None*, *\*\*query\_parameters*)

Device Admin Get global exception rules.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_policy_set_global_exception_rules`*

**`create_device_admin_policy_set_global_exception`** (*commands=None, link=None, profile=None, rule=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Create global exception authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model `ConditionReference` or dynamically built conditions which are not stored in the conditions Library, using models `ConditionAttributes`, `ConditionAndBlock`, `ConditionOrBlock` . .

### Parameters

- **`commands`** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*commands=None, link=None, profile=None, rule=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_policy\_set\_global\_exception*

**reset\_hit\_counts\_device\_admin\_global\_exceptions** (*headers=None, \*\*query\_parameters*)

Device Admin Reset HitCount for Global Exceptions.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_device\_admin\_global\_exceptions*

**get\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id** (*id, headers=None, \*\*query\_parameters*)

Device Admin Get global exception rule attribute.

**Parameters**

- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_device_admin_policy_set_global_exception_by_rule_id`*

**`update_device_admin_policy_set_global_exception_by_rule_id`** (*id*, *com-*  
*mands=None*,  
*link=None*,  
*profile=None*,  
*rule=None*,  
*head-*  
*ers=None*, *pay-*  
*load=None*, *ac-*  
*tive\_validation=True*,  
*\*\*query\_parameters*)

Device Admin Update global exception authorization rule.

**Parameters**

- **`commands`** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id*

**`delete_device_admin_policy_set_global_exception_by_rule_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete global exception authorization rule.

**Parameters**

- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id*

## device\_administration\_authorization\_rules

### class DeviceAdministrationAuthorizationRules

Identity Services Engine Device Administration - Authorization Rules API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Authorization Rules API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Device Admin Get authorization rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_device\_admin\_authorization\_rules*

**create\_device\_admin\_authorization\_rule** (*policy\_id*, *commands=None*, *link=None*,  
*profile=None*, *rule=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Device Admin Create authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.

- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *create\_device\_admin\_authorization\_rule*

**reset\_hit\_counts\_device\_admin\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Reset HitCount for Authorization Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_device\_admin\_authorization\_rules*

**get\_device\_admin\_authorization\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Get authorization rule attributes.

**Parameters**

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_authorization\_rule\_by\_id*

**update\_device\_admin\_authorization\_rule\_by\_id**(*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update authorization rule.

**Parameters**

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.



- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_authorization\_rule\_by\_id*

**delete\_device\_admin\_authorization\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete authorization rule.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *`delete_device_admin_authorization_rule_by_id`*

## **device\_administration\_command\_set**

**class DeviceAdministrationCommandSet**

Identity Services Engine Device Administration - Command Set API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Command Set API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_command_sets`** (*headers=None, \*\*query\_parameters*)

Device Admin Return list of command sets. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_command_sets`*

## device\_administration\_conditions

### class DeviceAdministrationConditions

Identity Services Engine Device Administration - Conditions API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns list of library conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_conditions*

**create\_device\_admin\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Creates a library condition: Library Condition has hierarchical structure which define a set of condition for which authentication and authorization policy rules could be match. Condition can be compose from single dictionary attribute name and value using model LibraryConditionAttributes , or from combination of dictionary attributes with logical operation of AND/OR between them, using models: LibraryConditionAndBlock or LibraryConditionOrBlock . When using AND/OR blocks, the condition will include inner layers inside these blocks, these layers are built using the inner condition models: ConditionAttributes , ConditionAndBlock , ConditionOrBlock , that represent dynamically built Conditions which are not stored in the conditions Library, or using ConditionReference , which includes an ID to existing stored condition in the library. The LibraryCondition models can only be used in the outer-most layer (root of the condition) and must always include the condition name. When using one of

the 3 inner condition models ( ConditionAttributes, ConditionAndBlock, ConditionOrBlock ), condition name cannot be included in the request, since these will not be stored in the conditions library, and used only as inner members of the root condition. When using ConditionReference model in inner layers, the condition name is not required. ConditionReference objects can also include a reference ID to a condition of type TimeAndDate . .

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttr” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate con-dition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no spe-cific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.

- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, id=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *create\_device\_admin\_condition*

```
get_device_admin_conditions_for_authentication_rules (headers=None, **query_parameters)
```

Device Admin Returns list of library conditions for authentication rules.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authentication_rules`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_conditions_for_authentication_rules`*

**`get_device_admin_conditions_for_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Device Admin Returns list of library conditions for authorization rules.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_conditions_for_authorization_rules`*

**`get_device_admin_condition_by_name`** (*name, headers=None, \*\*query\_parameters*)

Device Admin Returns a library condition.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_condition\_by\_name*

**update\_device\_admin\_condition\_by\_name** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update library condition using condition name.

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAndBlock’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘TimeAndDateCondition’.

- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **name** – name path parameter. Condition name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_device_admin_condition_by_name`

**`delete_device_admin_condition_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

NDevice Admin Delete a library condition using condition Name.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for `delete_device_admin_condition_by_name`

**`get_device_admin_conditions_for_policy_sets`** (*headers=None*, *\*\*query\_parameters*)

Device Admin Returns list of library conditions for policy sets.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_for\_policy\_sets** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_conditions\_for\_policy\_sets*

**get\_device\_admin\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Device Admin Returns a library condition.

**Parameters**

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_condition\_by\_id*

**update\_device\_admin\_condition\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update library condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAndBlock’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘TimeAndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.

- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_condition\_by\_id*

**delete\_device\_admin\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete a library condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_device\_admin\_condition\_by\_id*

### device\_administration\_dictionary\_attributes\_list

**class DeviceAdministrationDictionaryAttributesList**

Identity Services Engine Device Administration - Dictionary Attributes List API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Dictionary Attributes List API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_dictionaries\_authentication** (*headers=None*,  
*\*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authentication.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authentication`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_dictionaries_authentication`*

**`get_device_admin_dictionaries_authorization`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authorization.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authorization`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_dictionaries_authorization`*

**`get_device_admin_dictionaries_policy_set`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for policyset.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_policy_set`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_dictionaries\_policy\_set*

## device\_administration\_identity\_stores

**class DeviceAdministrationIdentityStores**

Identity Services Engine Device Administration - Identity Stores API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Identity Stores API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_identity_stores`** (*headers=None, \*\*query\_parameters*)

Device Admin Return list of identity stores for authentication. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of `MyDict` objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_identity\_stores*

## device\_administration\_network\_conditions

### class DeviceAdministrationNetworkConditions

Identity Services Engine Device Administration - Network Conditions API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Network Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_network\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns a list of network conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_network\_conditions*

**create\_device\_admin\_network\_condition** (*condition\_type=None, conditions=None, description=None, id=None, link=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device AdminCreates network condition.

#### Parameters

- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are 'DeviceCondition', 'DevicePortCondition' and 'EndstationCondition'.
- **conditions** (*list*) – conditions, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Network Condition name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*condition\_type=None, conditions=None, description=None, id=None, link=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_network\_condition*

**get\_device\_admin\_network\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Device Admin Returns a network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_device_admin_network_condition_by_id`

`update_device_admin_network_condition_by_id(id, condition_type=None, conditions=None, description=None, link=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)`

Device Admin Update network condition.

#### Parameters

- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are ‘DeviceCondition’, ‘DevicePortCondition’ and ‘EndstationCondition’.
- **conditions** (*list*) – conditions, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Network Condition name, property of the request body.
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`update_by_id(id, condition_type=None, conditions=None, description=None, link=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)`

Alias for `update_device_admin_network_condition_by_id`

**delete\_device\_admin\_network\_condition\_by\_id** (*id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Delete network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_device\_admin\_network\_condition\_by\_id*

## device\_administration\_policy\_set

### class DeviceAdministrationPolicySet

Identity Services Engine Device Administration - Policy Set API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Policy Set API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_policy\_sets** (*headers=None*, *\*\*query\_parameters*)  
 Device Admin List of policy sets.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_policy\_sets*

**`create_device_admin_policy_set`** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Create a new policy set: Policy must include name , service identifier (either server sequence or allowed protocol) and a condition. Condition has hierarchical structure which define a set of condition for which policy could be match. Condition can be either reference to a stored Library condition, using model *ConditionReference* , or, dynamically built conditions which are not stored in the conditions Library, using models *ConditionAttributes*, *ConditionAndBlock*, *ConditionOrBlock* . .

**Parameters**

- **`condition`** (*object*) – condition, property of the request body.
- **`default`** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **`description`** (*string*) – The description for the policy set, property of the request body.
- **`hit_counts`** (*integer*) – The amount of times the policy was matched, property of the request body.
- **`id`** (*string*) – Identifier for the policy set, property of the request body.
- **`is_proxy`** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **`link`** (*object*) – link, property of the request body.
- **`name`** (*string*) – Given name for the policy set, [Valid characters are alphanumeric, underscore, hyphen, space, period, parentheses], property of the request body.
- **`rank`** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **`service_name`** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **`state`** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are 'disabled', 'enabled' and 'monitor'.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_policy\_set*

**reset\_hit\_counts\_device\_admin\_policy\_sets** (*headers=None, \*\*query\_parameters*)  
Device Admin Reset HitCount for PolicySets.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_device\_admin\_policy\_sets*

**get\_device\_admin\_policy\_set\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Device Admin Get policy set attributes.

### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_policy\_set\_by\_id*

**update\_device\_admin\_policy\_set\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update a policy set.

### Parameters

- **condition** (*object*) – condition, property of the request body.
- **default** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **description** (*string*) – The description for the policy set, property of the request body.
- **hit\_counts** (*integer*) – The amount of times the policy was matched, property of the request body.
- **id** (*basestring*) – Identifier for the policy set, property of the request body.
- **is\_proxy** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Given name for the policy set, [Valid characters are alphanumeric, underscore, hyphen, space, period, parentheses], property of the request body.

- **rank** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **service\_name** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **state** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are ‘disabled’, ‘enabled’ and ‘monitor’.
- **id** – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_policy\_set\_by\_id*

**delete\_device\_admin\_policy\_set\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete a policy set.

### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_device_admin_policy_set_by_id`*

## device\_administration\_profiles

**class DeviceAdministrationProfiles**

Identity Services Engine Device Administration - Profiles API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Profiles API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_profiles`** (*headers=None*, *\*\*query\_parameters*)

Device Admin Returns list of shell profiles. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None*, *\*\*query\_parameters*)

Alias for *`get_device_admin_profiles`*



## device\_administration\_service\_names

### class DeviceAdministrationServiceNames

Identity Services Engine Device Administration - Service Names API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Service Names API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_service\_names** (*headers=None, \*\*query\_parameters*)

Returns list of Allowed Protocols and Server Sequences for Device Admin Policy Set results. 'isLocalAuthorization' property is available only for Network Access Policy Set results of type Server Sequence. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_service\_names*

## device\_administration\_time\_date\_conditions

### class DeviceAdministrationTimeDateConditions

Identity Services Engine Device Administration - Time/Date Conditions API (version: 3.1.1).

Wraps the Identity Services Engine Device Administration - Time/Date Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_time\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns a list of time and date conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_time\_conditions*

**`create_device_admin_time_condition`** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Creates time/date condition.

### Parameters

- **`attribute_name`** (*string*) – Dictionary attribute name, property of the request body.
- **`attribute_value`** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **`children`** (*list*) – In case type is `andBlock` or `orBlock` additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **`condition_type`** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **`dates_range`** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates

Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.

- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_time\_condition*

**get\_device\_admin\_time\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Device Admin Returns a network condition.

**Parameters**

- **`id`** (*basestring*) – id path parameter. Condition id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_device\_admin\_time\_condition\_by\_id*

```

update_device_admin_time_condition_by_id (id,          attribute_name=None,      at-
                                          attribute_value=None,    children=None,
                                          condition_type=None,  dates_range=None,
                                          dates_range_exception=None,  descrip-
                                          tion=None, dictionary_name=None, dictio-
                                          nary_value=None,    hours_range=None,
                                          hours_range_exception=None,
                                          is_negate=None, link=None, name=None,
                                          operator=None,    week_days=None,
                                          week_days_exception=None,
                                          headers=None,      payload=None,
                                          active_validation=True,
                                          **query_parameters)

```

Device Admin Update network condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All

Day , property of the request body.

- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_device_admin_time_condition_by_id`

**delete\_device\_admin\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Device Admin Delete Time/Date condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for `delete_device_admin_time_condition_by_id`

## downloadable\_acl

### class DownloadableAcl

Identity Services Engine DownloadableACL API (version: 3.1.1).

Wraps the Identity Services Engine DownloadableACL API and exposes the API as native Python methods that return native Python objects.

Downloadable ACL API allows the client to add, delete, update, search and perform actions on downloadable ACL.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                             | Revision Modification | Revision Modification           |
|------------|------------------|-------------------|---|-----------------------|---------------------------------|
|            |                  |                   |   | Attribute             | Description                     |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version               |                       |                                 |
| 1          | 1.1              | 2.6               | Support new attribute IP version in 2.6 | dac!Type              | Added Enum Attribute 'dac!Type' |

## Resource Definition

| Attribute   | Type   | Required | Description   | Default Values | Example Values                       |
|-------------|--------|----------|---|----------------|--------------------------------------|
| name        | String | Yes      | Resource Name. Name may contain alphanumeric or any of the following characters [_.-] |                | multiline_acl                        |
| id          | String | Yes      | Resource UUID   |                | c1e0e9e0-717f-11eb-9fb2-b6cb23d38630 |
| description | String | No       | Use the string n for a newline  |                | description                          |
| dac1        | String | Yes      | The DACL Content. Use the string n for a newline                                      |                | permit ip any any                    |
| dac1Type    | Enum   | No       | Allowed values: IPV4, IPV6, IP_AGNOSTIC   | IPV4           |                                      |

**get\_downloadable\_acl\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a downloadable ACL by ID.

## Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

Return type *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_downloadable\_acl\_by\_id*

**update\_downloadable\_acl\_by\_id**(*id*, *dac1=None*, *dac1\_type=None*, *description=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a downloadable ACL.



### Parameters

- **dacl** (*string*) – The DACL Content. Use the string `\n` for a newline, property of the request body.
- **dacl\_type** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **description** (*string*) – Use the string `\n` for a newline, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters `[_.-]`, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *dacl=None*, *dacl\_type=None*, *description=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_downloadable_acl_by_id`

**delete\_downloadable\_acl\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a downloadable ACL.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_downloadable_acl_by_id`*

**`get_downloadable_acl`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all downloadable ACLs.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_downloadable_acl`*

**`get_downloadable_acl_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all downloadable ACLs.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.

- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_downloadable\_acl\_generator*

**create\_downloadable\_acl** (*dac1=None, dac1\_type=None, description=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a downloadable ACL.

### Parameters

- **dac1** (*string*) – The DACL Content. Use the string n for a newline, property of the request body.
- **dac1\_type** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **description** (*string*) – Use the string n for a newline, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [\_.-], property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*acl=None, acl\_type=None, description=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_downloadable\_acl*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the downloadable ACL.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## **egress\_matrix\_cell**

### **class EgressMatrixCell**

Identity Services Engine EgressMatrixCell API (version: 3.1.1).

Wraps the Identity Services Engine EgressMatrixCell API and exposes the API as native Python methods that return native Python objects.

Egress Policy Matrix Cell API allows the client to add, update, delete and search egress matrix cells among other operations.

## Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                 |
|------------|------------------|-------------------|-----------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version   |
| 1          | 1.1              | 2.3               | Introducing bulk operations |

## Resource Definition

| Attribute         | Type   | Re-<br>quired | Description                                | Default<br>Values | Example Values                             |
|-------------------|--------|---------------|--|-------------------|--|
| name              | String | Yes           | Resource Name                              |                   | ANY-ANY                                    |
| id                | String | No            | Resource UUID, mandatory for update        |                   | f92c1a900-8c01-11e6-996c-525400b48521      |
| description       | String | No            |  |                   | Default egress rule                        |
| default-Rule      | Enum   | Yes           | Allowed values: NONE, DENY_IP, PERMIT_IP   | NONE              | PERMIT_IP                                  |
| destinationSgtId  | String | Yes           |  |                   | 92bb1950-8c01-11e6-996c-525400b48521       |
| matrix-CellStatus | Enum   | Yes           | Allowed values: DISABLED, ENABLED, MONITOR | DISABLED          | ENABLED                                    |
| sgACLs            | List   | Yes           |  |                   | [["92951ac0-8c01-11e6-996c-525400b48521"]] |
| sourceSgtId       | String | Yes           |  |                   | 92bb1950-8c01-11e6-996c-525400b48521       |

**clear\_all\_matrix\_cells** (*headers=None, \*\*query\_parameters*)

This API allows the client to clear all the egress matrix cells.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**clear** (*headers=None, \*\*query\_parameters*)

Alias for *clear\_all\_matrix\_cells*

**set\_all\_cells\_status** (*status, headers=None, \*\*query\_parameters*)

his API allows the client to set status of all the egress matrix cells.

#### Parameters

- **status** (*basestring*) – status path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**set\_status** (*status, headers=None, \*\*query\_parameters*)

Alias for *set\_all\_cells\_status*

**clone\_matrix\_cell** (*dst\_sgt\_id, id, src\_sgt\_id, headers=None, \*\*query\_parameters*)

This API allows the client to clone an egress matrix cell.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **src\_sgt\_id** (*basestring*) – srcSgtId path parameter.
- **dst\_sgt\_id** (*basestring*) – dstSgtId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`clone`** (*dst\_sgt\_id, id, src\_sgt\_id, headers=None, \*\*query\_parameters*)

Alias for *clone\_matrix\_cell*

**`get_egress_matrix_cell_by_id`** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an egress matrix cell by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_egress\_matrix\_cell\_by\_id*

**`update_egress_matrix_cell_by_id`** (*id, default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to update an egress matrix cell.

**Parameters**

- **`default_rule`** (*string*) – Allowed values: NONE, DENY\_IP, PERMIT\_IP, property of the request body.
- **`description`** (*string*) – description, property of the request body.

- **destination\_sgt\_id** (*string*) – destinationSgtId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **matrix\_cell\_status** (*string*) – Allowed values: DISABLED, ENABLED, MONITOR, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgacIs** (*list*) – sgacIs, property of the request body (list of strings).
- **source\_sgt\_id** (*string*) – sourceSgtId, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *default\_rule=None*, *description=None*, *destination\_sgt\_id=None*, *matrix\_cell\_status=None*, *name=None*, *sgacIs=None*, *source\_sgt\_id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_egress\_matrix\_cell\_by\_id*

**delete\_egress\_matrix\_cell\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an egress matrix cell.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_egress\_matrix\_cell\_by\_id*

**`get_egress_matrix_cell`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the egress matrix cell. Filter: [sgtSrc-Value, matrixStatus, description, sgtSrcName, sgtDstName, sgtDstValue] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [description, sgtSrcName, sgtDstName, sgtDstValue].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_egress\_matrix\_cell*

**`get_egress_matrix_cell_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the egress matrix cell. Filter: [sgtSrcValue, matrixStatus, description, sgtSrcName, sgtDstName, sgtDstValue] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [description, sgtSrcName, sgtDstName, sgtDstValue].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_egress_matrix_cell_generator`

**create\_egress\_matrix\_cell** (*default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an egress matrix cell.

**Parameters**

- **default\_rule** (*string*) – Allowed values: NONE, DENY\_IP, PERMIT\_IP, property of the request body.
- **description** (*string*) – description, property of the request body.
- **destination\_sgt\_id** (*string*) – destinationSgtId, property of the request body.
- **matrix\_cell\_status** (*string*) – Allowed values: DISABLED, ENABLED, MONITOR, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgacIs** (*list*) – sgacIs, property of the request body (list of strings).
- **source\_sgt\_id** (*string*) – sourceSgtId, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_egress\_matrix\_cell*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the egress matrix cell.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_egress\_matrix\_cell** (*operation\_type=None, source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – operationType, property of the request body.
- **`resource_media_type`** (*string*) – resourceMediaType, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_egress\_matrix\_cell*

**monitor\_bulk\_status\_egress\_matrix\_cell** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_egress\_matrix\_cell*

## endpoint\_certificate

### **class EndpointCertificate**

Identity Services Engine EndpointCertificate API (version: 3.1.1).

Wraps the Identity Services Engine EndpointCertificate API and exposes the API as native Python methods that return native Python objects.

Endpoint Certificate API allows the client to create endpoint certificates signed by the Cisco ISE Internal CA. This API can takes in certificate request details, create a RSA key pair, create a certificate and return the resulting key pair and certificate as a ZIP file. ZIP files are returned as an octet stream.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute          | Type   | Required | Description   | Example Values            |
|--------------------|--------|----------|---|---------------------------|
| name               | String | Yes      | Resource Name   |                           |
| id                 | String | No       | Resource UUID, mandatory for update   |                           |
| description        | String | No       |   |                           |
| certTemplateName   | String | Yes      | Name of an Internal CA template   | Certificate_Template_Name |
| format             | Enum   | Yes      | Allowed values: PKCS12, PKCS12_CHAIN, PKCS8, PKCS8_CHAIN  | PKCS8                     |
| password           | String | Yes      | Protects the private key. Must have more than 8 characters, less than 15 characters, at least one upper case letter, at least one lower case letter, at least one digit, and can only contain [A-Z][a-z][0-9]_# | Password_123              |
| certificateRequest | Map    | Yes      | Key value map. Must have CN and SAN entries   |                           |
| • CN               | String | Yes      | Matches the requester's User Name, unless the Requester is an ERS Admin. ERS Admins are allowed to create requests for any CN   | userName [or] machineName |
| • SAN              | String | Yes      | Valid MAC Address, delimited by '-'   | 11-22-33-44-55-66         |

**create\_endpoint\_certificate** (*cert\_template\_name=None, certificate\_request=None, format=None, password=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create an endpoint certificate.

#### Parameters

- **cert\_template\_name** (*string*) – Name of an Internal CA template, property of the request body.
- **certificate\_request** (*object*) – Key value map. Must have CN and SAN entries, property of the request body.
- **format** (*string*) – Allowed values: PKCS12, PKCS12\_CHAIN, PKCS8,

PKCS8\_CHAIN, property of the request body.

- **password** (*string*) – Protects the private key. Must have more than 8 characters, less than 15 characters, at least one upper case letter, at least one lower case letter, at least one digit, and can only contain [A-Z][a-z][0-9]\_#, property of the request body.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

**create** (*cert\_template\_name=None, certificate\_request=None, format=None, password=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_endpoint\_certificate*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint certificate.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*



**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**endpoint\_identity\_group****class EndpointIdentityGroup**

Identity Services Engine EndpointIdentityGroup API (version: 3.1.1).

Wraps the Identity Services Engine EndpointIdentityGroup API and exposes the API as native Python methods that return native Python objects.

Endpoint Identity Groups API allows the client to add, delete, update, and search endpoint groups.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 1.3               | Initial Cisco ISE Version |  |  |
| 1          | 1.1              | 2.4               | Added GetByName operation |  |  |

**Resource Definition**

| Attribute     | Type    | Re-quired | Description                         | Default Values | Example Values                                  |
|---------------|---------|-----------|-------------------------------------|----------------|---|
| name          | String  | Yes       | Resource Name                       |                | Cisco-Meraki-Devicee                            |
| id            | String  | No        | Resource UUID, mandatory for update |                | 1e2700a0-8c00-11e6-996c-525400b48521            |
| description   | String  | No        |                                     |                | Identity Group for Profile: Cisco-Meraki-Device |
| systemDefined | Boolean | Yes       |                                     | false          | true  |

**get\_endpoint\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an endpoint identity group by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_group\_by\_name*

**`get_endpoint_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an endpoint identity group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_group\_by\_id*

**`update_endpoint_group_by_id`** (*id*, *description=None*, *name=None*, *system\_defined=None*,  
*headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update an endpoint identity group.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **system\_defined** (*boolean*) – systemDefined, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *system\_defined=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_endpoint\_group\_by\_id*

**delete\_endpoint\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an endpoint identity group.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_endpoint_group_by_id`*

**`get_endpoint_groups`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the endpoint identity groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_endpoint\_groups*

**get\_endpoint\_groups\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoint identity groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request’s response
  - **text**(str): representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoint\_groups\_generator*

**create\_endpoint\_group** (*description=None, name=None, system\_defined=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an endpoint identity group.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **system\_defined** (*boolean*) – systemDefined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, system\_defined=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_endpoint\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint identity group.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## external\_radius\_server

### class ExternalRadiusServer

Identity Services Engine ExternalRADIUSServer API (version: 3.1.1).

Wraps the Identity Services Engine ExternalRADIUSServer API and exposes the API as native Python methods that return native Python objects.

External RADIUS Server API allows the client to add, delete, update, search and perform actions on external RADIUS server.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                              | Revision Modification | Revision Modification              |
|------------|------------------|-------------------|--|-----------------------|------------------------------------|
|            |                  |                   |  | Attribute             | Description                        |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version                |                       |                                    |
| 1          | 1.1              | 2.6               | Support new attribute Proxy Dead Timeout | proxyTime-out         | Added int Attribute 'proxyTimeout' |

### Resource Definition

| Attribute          | Type    | Required | Description   | Default Values | Example Values                       |
|--------------------|---------|----------|---|----------------|--------------------------------------|
| name               | String  | Yes      | Resource Name. Allowed characters are alphanumeric and _ (underscore).  |                | externalRadiusServer1                |
| id                 | String  | No       | Resource UUID, mandatory for update   |                | da095377-dce8-486e-933a-6ea788bbf51a |
| description        | String  | No       |   |                | example external radius server       |
| hostIP             | String  | Yes      | The IP of the host - must be a valid IPV4 address   |                | 1.1.1.1                              |
| sharedSecret       | String  | Yes      | Shared secret maximum length is 128 characters  |                | sharedSecret                         |
| enableKeyWrap      | Boolean | Yes      | KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices  |                | true                                 |
| encryptionKey      | String  | No       | The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECIMAL characters (depend on selection in field 'keyInputFormat')    |                | 1616161616161616                     |
| authenticatorKey   | String  | No       | The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECIMAL characters (depend on selection in field 'keyInputFormat') |                | 2020202020202020                     |
| keyInputFormat     | Enum    | Yes      | Specifies the format of the input for fields 'encryptionKey' and 'authenticatorKey'. Allowed Values: ASCII, HEXADECIMAL   |                | ASCII                                |
| authenticationPort | Integer | Yes      | Valid Range 1 to 65535  |                | 1812                                 |
| accountingPort     | Integer | Yes      | Valid Range 1 to 65535  |                | 1813                                 |
| timeout            | Integer | Yes      | Valid Range 1 to 120  |                | 5                                    |
| retries            | Integer | Yes      | Valid Range 1 to 9  |                | 3                                    |
| proxyTimeout       | Integer | No       | Valid Range 1 to 600  | 300            |                                      |



**get\_external\_radius\_server\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an external RADIUS server by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server\_by\_name*

**get\_external\_radius\_server\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an external RADIUS server by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server\_by\_id*

**update\_external\_radius\_server\_by\_id** (*id*, *accounting\_port=None*, *authentication\_port=None*, *authenticator\_key=None*, *description=None*, *enable\_key\_wrap=None*, *encryption\_key=None*, *host\_ip=None*, *key\_input\_format=None*, *name=None*, *proxy\_timeout=None*, *retries=None*, *shared\_secret=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an external RADIUS server.

#### Parameters

- **accounting\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authentication\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authenticator\_key** (*string*) – The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECIMAL characters (depend on selection in field ‘keyInputFormat’), property of the request body.
- **description** (*string*) – description, property of the request body.
- **enable\_key\_wrap** (*boolean*) – KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices, property of the request body.
- **encryption\_key** (*string*) – The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECIMAL characters (depend on selection in field ‘keyInputFormat’), property of the request body.
- **host\_ip** (*string*) – The IP of the host must be a valid IPV4 address, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **key\_input\_format** (*string*) – Specifies the format of the input for fields ‘encryptionKey’ and ‘authenticatorKey’. Allowed Values: ASCII HEXADECIMAL, property of the request body.
- **name** (*string*) – Resource Name. Allowed characters are alphanumeric and \_ (underscore), property of the request body.
- **proxy\_timeout** (*integer*) – Valid Range 1 to 600, property of the request body.
- **retries** (*integer*) – Valid Range 1 to 9, property of the request body.
- **shared\_secret** (*string*) – Shared secret maximum length is 128 characters, property of the request body.
- **timeout** (*integer*) – Valid Range 1 to 120, property of the request body.
- **id** – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *accounting\_port=None*, *authentication\_port=None*, *authenticator\_key=None*, *description=None*, *enable\_key\_wrap=None*, *encryption\_key=None*, *host\_ip=None*, *key\_input\_format=None*, *name=None*, *proxy\_timeout=None*, *retries=None*, *shared\_secret=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_external\_radius\_server\_by\_id*

**delete\_external\_radius\_server\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an external RADIUS server.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_external\_radius\_server\_by\_id*

**get\_external\_radius\_server** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the external RADIUS servers.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server*

**get\_external\_radius\_server\_generator** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the external RADIUS servers.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_external\_radius\_server\_generator*

**create\_external\_radius\_server** (*accounting\_port=None, authentication\_port=None, authenticator\_key=None, description=None, enable\_key\_wrap=None, encryption\_key=None, host\_ip=None, key\_input\_format=None, name=None, proxy\_timeout=None, retries=None, shared\_secret=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an external RADIUS server.

**Parameters**

- **accounting\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authentication\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authenticator\_key** (*string*) – The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECIMAL characters (depend on selection in field 'keyInputFormat'), property of the request body.
- **description** (*string*) – description, property of the request body.
- **enable\_key\_wrap** (*boolean*) – KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices, property of the request body.
- **encryption\_key** (*string*) – The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECIMAL characters (depend on selection in field 'keyInputFormat'), property of the request body.
- **host\_ip** (*string*) – The IP of the host must be a valid IPV4 address, property of the request body.
- **key\_input\_format** (*string*) – Specifies the format of the input for fields 'encryptionKey' and 'authenticatorKey'. Allowed Values: ASCII HEXADECIMAL, property of the request body.
- **name** (*string*) – Resource Name. Allowed characters are alphanumeric and \_ (underscore), property of the request body.
- **proxy\_timeout** (*integer*) – Valid Range 1 to 600, property of the request body.

- **retries** (*integer*) – Valid Range 1 to 9, property of the request body.
- **shared\_secret** (*string*) – Shared secret maximum length is 128 characters, property of the request body.
- **timeout** (*integer*) – Valid Range 1 to 120, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*accounting\_port=None, authentication\_port=None, authenticator\_key=None, description=None, enable\_key\_wrap=None, encryption\_key=None, host\_ip=None, key\_input\_format=None, name=None, proxy\_timeout=None, retries=None, shared\_secret=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_external\_radius\_server*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the external RADIUS server.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## filter\_policy

### class FilterPolicy

Identity Services Engine FilterPolicy API (version: 3.1.1).

Wraps the Identity Services Engine FilterPolicy API and exposes the API as native Python methods that return native Python objects.

Filter Policy API allows clients to add, get, update and delete SXP domain filter policies.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute   | Type   | Required | Description   | Example Values |
|-------------|--------|----------|---|----------------|
| name        | String | Yes      | Resource Name   |                |
| id          | String | No       | Resource UUID, mandatory for update   |                |
| description | String | No       |   |                |
| subnet      | String | No       | Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined | subnetAddress  |
| sgt         | String | No       | SGT name or ID. At least one of subnet or sgt or vn should be defined                                       | sgt            |
| vn          | String | No       | Virtual Network. At least one of subnet or sgt or vn should be defined                                      | virtualNetwork |
| domains     | String | Yes      | List of SXP Domains, separated with comma   | Sxp Vpn Name   |

**get\_filter\_policy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a filter policy by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_filter\_policy\_by\_id*

**update\_filter\_policy\_by\_id** (*id*, *domains=None*, *sgt=None*, *subnet=None*, *vn=None*,  
*headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a filter policy.

### Parameters

- **domains** (*string*) – List of SXP Domains, separated with comma, property of the request body.
- **sgt** (*string*) – SGT name or ID. At least one of subnet or sgt or vn should be defined, property of the request body.
- **subnet** (*string*) – Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined, property of the request body.
- **vn** (*string*) – Virtual Network. At least one of subnet or sgt or vn should be defined, property of the request body.
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *domains=None*, *sgt=None*, *subnet=None*, *vn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_filter_policy_by_id`

**`delete_filter_policy_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a filter policy.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `delete_filter_policy_by_id`

**`get_filter_policy`**(*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the filter policies.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_filter\_policy*

**get\_filter\_policy\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the filter policies.

**Parameters**

- **page (int)** – page query parameter. Page number.
- **size (int)** – size query parameter. Number of objects returned per page.
- **headers (dict)** – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [get\\_filter\\_policy\\_generator](#)

**create\_filter\_policy** (*domains=None, sgt=None, subnet=None, vn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a filter policy.

#### Parameters

- **domains** (*string*) – List of SXP Domains, separated with comma, property of the request body.
- **sgt** (*string*) – SGT name or ID. At least one of subnet or sgt or vn should be defined, property of the request body.
- **subnet** (*string*) – Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined, property of the request body.
- **vn** (*string*) – Virtual Network. At least one of subnet or sgt or vn should be defined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*domains=None, sgt=None, subnet=None, vn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [create\\_filter\\_policy](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the filter policy.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**guest\_location****class GuestLocation**

Identity Services Engine GuestLocation API (version: 3.1.1).

Wraps the Identity Services Engine GuestLocation API and exposes the API as native Python methods that return native Python objects.

Guest Location API allows the client to search the locations configured from Cisco ISE GUI.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

**Resource Definition**

| At-tribute   | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       | name                                 |
| id           | String | No        | Resource UUID, mandatory for update | 9f083530-8c01-11e6-996c-525400b48521 |
| descrip-tion | String | No        |                                     |                                      |

**`get_guest_location_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest location by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_location\_by\_id*

**get\_guest\_location** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest locations. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_guest\_location*

**get\_guest\_location\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest locations. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_guest\_location\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest location.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## guest\_smtp\_notification\_configuration

### **class GuestSmtpNotificationConfiguration**

Identity Services Engine GuestSMTPNotificationConfiguration API (version: 3.1.1).

Wraps the Identity Services Engine GuestSMTPNotificationConfiguration API and exposes the API as native Python methods that return native Python objects.

Guest SMTP notification configuration API is a global setting for enabling email notifications within guest application. These APIs allow to create, update and retrieve the notification settings. The create API may not be required to be used as of Cisco ISE Release 2.2 because the single SMTP notification configuration is the only one used and it always gets created during the Cisco ISE application initialization period.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### **Resource Definition**



| Attribute                 | Type    | Re-<br>quired | Description   | Default<br>Values      | Example Values                       |
|---------------------------|---------|---------------|---|------------------------|--------------------------------------|
| name                      | String  | Yes           | Resource Name   |                        |                                      |
| id                        | String  | No            | Resource UUID, mandatory for update   |                        | 9ecb5340-8c01-11e6-996c-525400b48521 |
| description               | String  | No            |   |                        |                                      |
| defaultFromAddress        | String  | No            | The default from email address to be used to send emails from                             | donotreply@example.com |                                      |
| notificationEnabled       | Boolean | No            | Indicates if the email notification service is to be enabled                              | true                   |                                      |
| smtpServer                | String  | No            | The SMTP server ip address or fqdn such as outbound.mycompany.com                         |                        |                                      |
| useDefaultFromAddress     | Boolean | No            | If the default from address should be used rather than using a sponsor user email address | false                  |                                      |
| smtpPort                  | String  | No            | Port at which SMTP Secure Server is listening   | 25                     |                                      |
| connectionTimeout         | String  | No            | Interval in seconds for all the SMTP client connections                                   | 60                     |                                      |
| useTLSorSSLEncryption     | Boolean | No            | If configured to true, SMTP server authentication will happen using TLS/SSL               | false                  |                                      |
| usePasswordAuthentication | Boolean | No            | If configured to true, SMTP server authentication will happen using username/password     | false                  |                                      |
| userName                  | String  | No            | Username of Secure SMTP server  |                        |                                      |
| password                  | String  | No            | Password of Secure SMTP server  |                        |                                      |

`get_guest_smtp_notification_settings_by_id(id, headers=None, **query_parameters)`

This API allows the client to get a guest SMTP notification configuration by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_smtp\_notification\_settings\_by\_id*

**update\_guest\_smtp\_notification\_settings\_by\_id** (*id*, *connection\_timeout=None*,  
*default\_from\_address=None*,  
*notification\_enabled=None*, *password=None*, *smtp\_port=None*,  
*smtp\_server=None*,  
*use\_default\_from\_address=None*,  
*use\_password\_authentication=None*,  
*use\_tlssor\_ssl\_encryption=None*,  
*user\_name=None*, *headers=None*, *payload=None*,  
*active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a SMTP configuration setting.

#### Parameters

- **connection\_timeout** (*string*) – Interval in seconds for all the SMTP client connections, property of the request body.
- **default\_from\_address** (*string*) – The default from email address to be used to send emails from, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **notification\_enabled** (*boolean*) – Indicates if the email notification service is to be enabled, property of the request body.
- **password** (*string*) – Password of Secure SMTP server, property of the request body.
- **smtp\_port** (*string*) – Port at which SMTP Secure Server is listening, property of the request body.
- **smtp\_server** (*string*) – The SMTP server ip address or fqdn such as out-bound.mycompany.com, property of the request body.
- **use\_default\_from\_address** (*boolean*) – If the default from address should be used rather than using a sponsor user email address, property of the request body.
- **use\_password\_authentication** (*boolean*) – If configured to true, SMTP server authentication will happen using username/password, property of the request body.
- **use\_tlssor\_ssl\_encryption** (*boolean*) – If configured to true, SMTP server authentication will happen using TLS/SSL, property of the request body.
- **user\_name** (*string*) – Username of Secure SMTP server, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *connection\_timeout=None*, *default\_from\_address=None*, *notification\_enabled=None*, *password=None*, *smtp\_port=None*, *smtp\_server=None*, *use\_default\_from\_address=None*, *use\_password\_authentication=None*, *use\_tlsor\_ssl\_encryption=None*, *user\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, **\*\*query\_parameters**)

Alias for *update\_guest\_smtp\_notification\_settings\_by\_id*

**get\_guest\_smtp\_notification\_settings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, **\*\*query\_parameters**)

This API allows the client to get all the guest SMTP notification configurations. Filter: [name] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_smtp\_notification\_settings*

**get\_guest\_smtp\_notification\_settings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest SMTP notification configurations. Filter: [name] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_guest\_smtp\_notification\_settings\_generator*

**create\_guest\_smtp\_notification\_settings** (*connection\_timeout=None, default\_from\_address=None, notification\_enabled=None, password=None, smtp\_port=None, smtp\_server=None, use\_default\_from\_address=None, use\_password\_authentication=None, use\_tlsor\_ssl\_encryption=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest SMTP notification configuration.

### Parameters

- **connection\_timeout** (*string*) – Interval in seconds for all the SMTP client connections, property of the request body.
- **default\_from\_address** (*string*) – The default from email address to be used to send emails from, property of the request body.
- **notification\_enabled** (*boolean*) – Indicates if the email notification service is to be enabled, property of the request body.
- **password** (*string*) – Password of Secure SMTP server, property of the request body.
- **smtp\_port** (*string*) – Port at which SMTP Secure Server is listening, property of the request body.

- **smtp\_server** (*string*) – The SMTP server ip address or fqdn such as out-bound.mycompany.com, property of the request body.
- **use\_default\_from\_address** (*boolean*) – If the default from address should be used rather than using a sponsor user email address, property of the request body.
- **use\_password\_authentication** (*boolean*) – If configured to true, SMTP server authentication will happen using username/password, property of the request body.
- **use\_tlssr\_ssl\_encryption** (*boolean*) – If configured to true, SMTP server authentication will happen using TLS/SSL, property of the request body.
- **user\_name** (*string*) – Username of Secure SMTP server, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*connection\_timeout=None, default\_from\_address=None, notification\_enabled=None, password=None, smtp\_port=None, smtp\_server=None, use\_default\_from\_address=None, use\_password\_authentication=None, use\_tlssr\_ssl\_encryption=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_guest\_smtp\_notification\_settings*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest smtp notification configuration.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_ssid

### **class GuestSsid**

Identity Services Engine GuestSSID API (version: 3.1.1).

Wraps the Identity Services Engine GuestSSID API and exposes the API as native Python methods that return native Python objects.

Guest SSIDs are global objects that are referenced by Cisco ISE sponsor portals. Guest SSID API allows the client to add, delete, update and search guest SSID among other operations which are available from all the portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description  | Example Values                       |
|-------------|--------|----------|--|--------------------------------------|
| name        | String | Yes      | Resource Name. Name may contain alphanumeric or any of the following characters [ <code>_.-</code> ] | ssid_value                           |
| id          | String | No       | Resource UUID, mandatory for update  | 9132eedc-7910-4ffe-805e-3d3a366f7fb7 |
| description | String | No       |  |                                      |

**`get_guest_ssid_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest SSID by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_ssid\_by\_id*

**update\_guest\_ssid\_by\_id** (*id*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest SSID by ID.

#### Parameters

- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [*\_*.-], property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*



**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id**(*id*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                   *\*\*query\_parameters*)  
 Alias for *update\_guest\_ssid\_by\_id*

**delete\_guest\_ssid\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes a guest SSID by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_guest\_ssid\_by\_id*

**get\_guest\_ssid**(*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*,  
                   *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest SSIDs. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_guest\_ssid*

**get\_guest\_ssid\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest SSIDs. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_ssid\_generator*

**create\_guest\_ssid** (*name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates a guest SSID.

### Parameters

- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [\_.-], property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_guest\_ssid*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest SSID.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_type

### **class** GuestType

Identity Services Engine GuestType API (version: 3.1.1).

Wraps the Identity Services Engine GuestType API and exposes the API as native Python methods that return native Python objects.

Guest Type API allows the client to add, delete, update and search guest types.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute                        | Type    | Required | Description   | Default Values | Example Values  |
|----------------------------------|---------|----------|---|----------------|---|
| name                             | String  | Yes      | Resource Name   |                | Contractor (default)                                    |
| id                               | String  | No       | Resource UUID, mandatory for update                             |                | 9f03a151-8c01-11e6-996c-525400b48521                    |
| description                      | String  | No       |   |                | Default settings allow network access for up to a year. |
| accessTime                       | List    | No       |   |                |   |
| • allowAccessOnSpecificDaysTimes | Boolean | No       | Enable Specific Day Time Limits                                 | false          |   |
| • defaultDuration                | Integer | No       |   | 90             |   |
| • durationTimeUnit               | Enum    | No       | Allowed values are: - DAYS, - HOURS, - MINUTES                  | DAYS           |   |
| • fromFirstLogin                 | Boolean | No       | When Account Duration starts from first login or specified date | false          |   |
| • maxAccountDuration             | Integer | No       | Maximum value of Account Duration                               | 365            |   |
| • dayTimeLimits                  | List    | No       | List of Time Ranges for account access                          |                |   |
| • dayTimeLimit                   | List    | No       | Time Ranges for account access                                  |                |   |
| • startTime                      | String  | No       | Start time in HH:mm format                                      | 09:00          |   |
| • endTime                        | String  | No       | End time in HH:mm format  | 17:00          |   |
| • days                           | List    | No       | List of Days  |                |   |
| • day                            | Enum    | No       | Value should be one of Week day. Allowed values are: -          |                |   |
| 962                              |         |          | Sunday, - Monday, - Tuesday, - Wednesday, - Thursday, - Friday  | Chapter 1.     | The User Guide  |

**update\_guest\_type\_email** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest type email by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_email** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_type\_email*

**update\_guest\_type\_sms** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest type sms by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_sms** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                  *\*\*query\_parameters*)

Alias for *update\_guest\_type\_sms*

**get\_guest\_type\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest type by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_type\_by\_id*



```
update_guest_type_by_id(id, access_time=None, description=None, expiration_notification=None, is_default_type=None, login_options=None, name=None, sponsor_groups=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a guest type.

#### Parameters

- **access\_time** (*object*) – accessTime, property of the request body.
- **description** (*string*) – description, property of the request body.
- **expiration\_notification** (*object*) – Expiration Notification Settings, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_default\_type** (*boolean*) – isDefaultType, property of the request body.
- **login\_options** (*object*) – loginOptions, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sponsor\_groups** (*list*) – sponsorGroups, property of the request body (list of strings).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, access_time=None, description=None, expiration_notification=None, is_default_type=None, login_options=None, name=None, sponsor_groups=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_guest_type_by_id`

```
delete_guest_type_by_id(id, headers=None, **query_parameters)
```

This API deletes a guest type.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_type\_by\_id*

**get\_guest\_type** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest types. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_guest\_type*

**get\_guest\_type\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest types. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_type\_generator*

**create\_guest\_type** (*access\_time=None, description=None, expiration\_notification=None, is\_default\_type=None, login\_options=None, name=None, sponsor\_groups=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest type.

#### Parameters

- **access\_time** (*object*) – accessTime, property of the request body.
- **description** (*string*) – description, property of the request body.
- **expiration\_notification** (*object*) – Expiration Notification Settings, property of the request body.
- **is\_default\_type** (*boolean*) – isDefaultType, property of the request body.
- **login\_options** (*object*) – loginOptions, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sponsor\_groups** (*list*) – sponsorGroups, property of the request body (list of strings).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*access\_time=None, description=None, expiration\_notification=None, is\_default\_type=None, login\_options=None, name=None, sponsor\_groups=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_guest\_type*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest type.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_user

### class GuestUser

Identity Services Engine GuestUser API (version: 3.1.1).

Wraps the Identity Services Engine GuestUser API and exposes the API as native Python methods that return native Python objects.

Guest User API allows the client to add, delete, update and search guest users among other operations which are available from the sponsor portal. Please note that each API description shows whether the API is supported in bulk operation. The bulk section is showing only 'create' bulk operation. However, all other operation which are bulk supported can be used in the same way.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description   |
|------------|------------------|-------------------|---|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version                           |
| 1          | 2.0              | 1.3               | Introducing new schema - not supporting 1.0 anymore |

### Resource Definition

| Attribute          | Type   | Required | Description                         | Default Values | Example Values                       |
|--------------------|--------|----------|-------------------------------------|----------------|--------------------------------------|
| name               | String | Yes      | Resource Name                       |                | guestUser                            |
| id                 | String | No       | Resource UUID, mandatory for update |                | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description        | String | No       |                                     |                | ERS Example user                     |
| customFields       | Map    | No       | Key value map                       |                | "some key" : "some value"            |
| guestType          | String | No       |                                     |                | Contractor                           |
| status             | String | No       |                                     |                |                                      |
| reasonForVisit     | String | No       |                                     |                |                                      |
| personBeingVisited | String | No       |                                     |                |                                      |
| sponsorUserName    | String | No       |                                     |                | Mr Spons                             |
| sponsorUserId      | String | No       |                                     |                |                                      |
| statusReason       | String | No       |                                     |                |                                      |
| portalId           | String | No       |                                     |                | 23423432523                          |
| guestAccessInfo    | List   | No       |                                     |                |                                      |

Continued on next page

Table 21 – continued from previous page

|                      |         |     |   |       |                    |
|----------------------|---------|-----|---|-------|--------------------|
| • validDays          | Integer | Yes | Number of days guest user is valid. To validate validDays property, Cisco ISE considers only date (not time) between fromDate and toDate properties |       | 90                 |
| • fromDate           | String  | No  |   |       | 07/29/2014 14:44   |
| • toDate             | String  | No  |   |       | 10/29/2014 17:30   |
| • location           | String  | No  |   |       | San Jose           |
| • ssid               | String  | No  |   |       |                    |
| • groupTag           | String  | No  |   |       |                    |
| GuestInfo            | List    | Yes |   |       |                    |
| • emailAddress       | String  | No  |   |       | email@some.uri.com |
| • enabled            | Boolean | Yes | This field is only for Get operation not applicable for Create, Update operations   | false |                    |
| • password           | String  | Yes |   |       | asdlkj324ew        |
| • phoneNumber        | String  | No  | Phone number should be E.164 format   |       | +13211239034       |
| • smsServiceProvider | String  | No  |   |       | Global Default     |

Continued on next page

Table 21 – continued from previous page

|                           |        |    |   |  |               |
|---------------------------|--------|----|---|--|---------------|
| •<br>userName             | String | No | If account needs be created with mobile number, please provide mobile number here |  | DS3ewdsa34wWE |
| • firstName               | String | No |   |  |               |
| • lastName                | String | No |   |  |               |
| • company                 | String | No |   |  |               |
| •<br>creationTime         | String | No |   |  |               |
| •<br>notificationLanguage | String | No |   |  |               |

**approve\_guest\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to approve a guest user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**approve\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *approve\_guest\_user\_by\_id*

**change\_sponsor\_password** (*portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to change the sponsor password.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**suspend\_guest\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to suspend a guest user by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`suspend_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`suspend_guest_user_by_name`*

**`reinstate_guest_user_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reinstate a guest user by name.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`reinstate_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`reinstate_guest_user_by_name`*

**`get_guest_user_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest user by name.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_guest_user_by_name`*

**`update_guest_user_by_name`** (*name*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *id=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user by name.

**Parameters**

- **`custom_fields`** (*object*) – Key value map, property of the request body.
- **`description`** (*string*) – description, property of the request body.
- **`guest_access_info`** (*object*) – `guestAccessInfo`, property of the request body.
- **`guest_info`** (*object*) – `guestInfo`, property of the request body.
- **`guest_type`** (*string*) – `guestType`, property of the request body.
- **`id`** (*string*) – id, property of the request body.
- **`name`** (*basestring*) – name, property of the request body.
- **`portal_id`** (*string*) – `portalId`, property of the request body.
- **`reason_for_visit`** (*string*) – `reasonForVisit`, property of the request body.
- **`sponsor_user_id`** (*string*) – `sponsorUserId`, property of the request body.
- **`sponsor_user_name`** (*string*) – `sponsorUserName`, property of the request body.
- **`status`** (*string*) – status, property of the request body.
- **`status_reason`** (*string*) – `statusReason`, property of the request body.
- **`name`** – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *id=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_by\_name*

**delete\_guest\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a guest user.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_user\_by\_name*

**reset\_guest\_user\_password\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reset the guest user password.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_password\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_guest\_user\_password\_by\_id*

**reinstate\_guest\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reinstate a guest user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reinstate\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reinstate\_guest\_user\_by\_id*

**update\_guest\_user\_email** (*id*, *portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user email by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_email** (*id*, *portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_email*

**update\_guest\_user\_sms** (*id*, *portal\_id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to update a guest user sms by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_sms`** (*id*, *portal\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_sms*

**`deny_guest_user_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deny a guest user by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deny_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *deny\_guest\_user\_by\_id*

**`get_guest_user_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest user by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_user\_by\_id*

**update\_guest\_user\_by\_id** (*id*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *name=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user by ID.

### Parameters

- **custom\_fields** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_access\_info** (*object*) – guestAccessInfo, property of the request body.
- **guest\_info** (*object*) – guestInfo, property of the request body.
- **guest\_type** (*string*) – guestType, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_id** (*string*) – portalId, property of the request body.
- **reason\_for\_visit** (*string*) – reasonForVisit, property of the request body.
- **sponsor\_user\_id** (*string*) – sponsorUserId, property of the request body.
- **sponsor\_user\_name** (*string*) – sponsorUserName, property of the request body.
- **status** (*string*) – status, property of the request body.
- **status\_reason** (*string*) – statusReason, property of the request body.



- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, custom_fields=None, description=None, guest_access_info=None,
             guest_info=None, guest_type=None, name=None, portal_id=None, reason_for_visit=None,
             sponsor_user_id=None, sponsor_user_name=None, status=None, status_reason=None,
             headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *update\_guest\_user\_by\_id*

```
delete_guest_user_by_id(id, headers=None, **query_parameters)
```

This API deletes a guest user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_user\_by\_id*

**get\_guest\_users** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest users. Filter: [lastName, sponsor, creationTime, personBeingVisited, toDate, userName, firstName, emailAddress, phoneNumber, groupTag, name, company, guestType, status] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [firstName, lastName, emailAddress, name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_guest\_users*

**get\_guest\_users\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest users. Filter: [lastName, sponsor, creationTime, personBeingVisited, toDate, userName, firstName, emailAddress, phoneNumber, groupTag, name, company, guestType, status] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [firstName, lastName, emailAddress, name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_users\_generator*

**create\_guest\_user** (*custom\_fields=None, description=None, guest\_access\_info=None, guest\_info=None, guest\_type=None, name=None, portal\_id=None, reason\_for\_visit=None, sponsor\_user\_id=None, sponsor\_user\_name=None, status=None, status\_reason=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest user.

**Parameters**

- **custom\_fields** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_access\_info** (*object*) – guestAccessInfo, property of the request body.
- **guest\_info** (*object*) – guestInfo, property of the request body.
- **guest\_type** (*string*) – guestType, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_id** (*string*) – portalId, property of the request body.
- **reason\_for\_visit** (*string*) – reasonForVisit, property of the request body.
- **sponsor\_user\_id** (*string*) – sponsorUserId, property of the request body.
- **sponsor\_user\_name** (*string*) – sponsorUserName, property of the request body.
- **status** (*string*) – status, property of the request body.
- **status\_reason** (*string*) – statusReason, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*custom\_fields=None, description=None, guest\_access\_info=None, guest\_info=None, guest\_type=None, name=None, portal\_id=None, reason\_for\_visit=None, sponsor\_user\_id=None, sponsor\_user\_name=None, status=None, status\_reason=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_guest\_user*

**suspend\_guest\_user\_by\_id** (*id, additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to suspend a guest user by ID.

**Parameters**

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**suspend\_by\_id** (*id, additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *suspend\_guest\_user\_by\_id*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest user.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_guest\_user** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_request\_for\_guest\_user*

**monitor\_bulk\_status\_guest\_user** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_guest\_user*

## hotspot\_portal

### class HotspotPortal

Identity Services Engine HotspotPortal API (version: 3.1.1).

Wraps the Identity Services Engine HotspotPortal API and exposes the API as native Python methods that return native Python objects.

Hotspot Guest Portal API provides the ability to create, read, update, delete and search hotspot guest portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

## Resource Definition

| Attribute  | Type    | Required | Description  | Default Values  | Example Values |
|--|---------|----------|--|---|----------------|
| name   | String  | Yes      | Resource Name  | Hotspot Guest Portal (default)  |                |
| id   | String  | No       | Resource UUID, mandatory for update  | b132a9ef-1491-4e01-9ad4-b48a9c72e1c7  |                |
| description  | String  | No       | Guests do not require username and password credentials to access the network, but you can optionally require an access code |   |                |
| portalTestUrl  | String  | No       | URL to bring up a test page for this portal  | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portal=b132a9ef-1491-4e01-9ad4-b48a9c72e1c7">https://{ise-ip}:8443/portal/PortalSetup.action?portal=b132a9ef-1491-4e01-9ad4-b48a9c72e1c7</a> |                |
| portalType   | Enum    | Yes      | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELF-REGGUEST, SPONSOR, SPONSORED, GUEST                                       | HOTSPOTGUEST  |                |
| settings   | List    | No       | Defines all of the settings groups available for a BYOD  |   |                |
| <ul style="list-style-type: none"> <li>portalSettings</li> </ul> | List    | No       | The port, interface, certificate, and other basic settings of a portal   |   |                |
| <ul style="list-style-type: none"> <li>httpsPort</li> </ul>      | Integer | Yes      | The port number that the allowed interfaces will listen on. Range from 8000 to 8999  | 8443  |                |

Continued on next page



Table 22 – continued from previous page

|                            |        |     |  |                                      |  |
|----------------------------|--------|-----|--|--------------------------------------|--|
| •<br>allowedInterfaces     | Enum   | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 | [ "eth0", "bond0" ]                  |  |
| •<br>certificateGroupTag   | String | Yes | Logical name of the x.509 server certificate that will be used for the portal  | Default Portal Certificate Group     |  |
| •<br>endpointIdentityGroup | String | Yes | Unique Id of the endpoint identity group where user's devices will be added. Used only in Hotspot Portal                 | aa178bd0-8bff-11e6-996c-525400b48521 |  |
| •<br>displayLang           | Enum   | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  | USEBROWSERLOCALE                     |  |
| •<br>fallbackLanguage      | String | No  | Used when displayLang = USE-BROWSER-LOCALE   | English                              |  |
| •<br>alwaysUsedLanguage    | String | No  | Used when displayLang = ALWAYSUSE  | English                              |  |
| •<br>coaType               | Enum   | No  | Allowed Values: COAREAUTHENTICATE, COATERMINATE  | COAREAUTHENTICATE                    |  |
| •<br>aupSettings           | List   | No  | Configuration of the Acceptable Use Policy (AUP) for a portal  |                                      |  |

Continued on next page

Table 22 – continued from previous page

|                           |         |    |   |                 |  |
|---------------------------|---------|----|---|-----------------|--|
| • requireAccessCode       | Boolean | No | Require the portal user to enter an access code. Only used in Hotspot portal  | false           |  |
| • accessCode              | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true)                            |                 |  |
| • includeAup              | Boolean | No | Require the portal user to read and accept an AUP   | true            |  |
| • requireScrolling        | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true                      | false           |  |
| • authSuccessSettings     | List    | No |   |                 |  |
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   | www.cisco.com   |  |
| • postLoginBannerSettings | List    | No |   |                 |  |

Continued on next page

Table 22 – continued from previous page

|                              |         |    |   |       |  |
|------------------------------|---------|----|---|-------|--|
| •<br>includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |  |
| •<br>supportInfoSettings     | List    | No | Portal Support Information Settings   |       |  |
| •<br>includeSupportInfoPage  | Boolean | No | false   |       |  |
| •<br>includeMacAddr          | Boolean | No | false   |       |  |
| •<br>includeIpAddress        | Boolean | No | false   |       |  |
| •<br>includeBrowserUserAgent | Boolean | No | false   |       |  |
| •<br>includePolicyServer     | Boolean | No | false   |       |  |
| •<br>includeFailureCode      | Boolean | No | false   |       |  |
| •<br>emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. Allowed values: HIDE, DISPLAY-WITHNO-VALUE, DISPLAYWITH-DEFAULT-VALUE | HIDE  |  |

Continued on next page

Table 22 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  | 9eb421c0-8c01-11e6-996c-525400b48521     |  |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   | Default Blue theme                       |  |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  | Base 64 encoded string of Theme CSS file |  |

Continued on next page

Table 22 – continued from previous page

|                         |        |    |   |         |  |
|-------------------------|--------|----|---|---------|--|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |         |  |
| • bannerColor           | String | No | Hex value of color  | #0000FF |  |
| • bannerTextColor       | String | No | Banner Text color code from GUI   |         |  |
| • pageBackgroundColor   | String | No | Color code from GUI   |         |  |
| • pageLabelAndTextColor | String | No | Label and Text color from GUI   |         |  |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |         |  |
| • viewLanguage          | String | No | English   |         |  |

Continued on next page

Table 22 – continued from previous page

|                        |        |    |   |                                |  |
|------------------------|--------|----|---|--------------------------------|--|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |                                |  |
| • bannerTitle          | String | No | BYOD Portal   |                                |  |
| • contactText          | String | No | Contact Support   |                                |  |
| • footerElement        | String | No | Footer Element  |                                |  |
| • mobileLogoImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • desktopLogoImage     | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • bannerImage          | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • backgroundImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |

Continued on next page

Table 22 – continued from previous page

|                      |        |     |   |  |  |
|----------------------|--------|-----|---|--|--|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |  |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |  |
| • key                | String | Yes | ui_contact_ip_address_label                                   |  |  |
| • value              | String | Yes | SVAgYWRkcmVzczo=  |  |  |

**get\_hotspot\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a hotspot portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_hotspot\_portal\_by\_id*

**update\_hotspot\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a hotspot portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_hotspot\_portal\_by\_id*

**delete\_hotspot\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a hotspot portal by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_hotspot\_portal\_by\_id*

**`get_hotspot_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the hotspot portals. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_hotspot\_portal*

**`get_hotspot_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the hotspot portals. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_hotspot\_portal\_generator*

**create\_hotspot\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a hotspot portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_hotspot\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the hotspot portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## ip\_to\_sgt\_mapping

**class IpToSgtMapping**

Identity Services Engine IPToSGTMapping API (version: 3.1.1).

Wraps the Identity Services Engine IPToSGTMapping API and exposes the API as native Python methods that return native Python objects.

IP To SGT Mapping API allows the client to add, delete, update, search and deploy IP to SGT mapping.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute     | Type   | Required  | Description                         | Example Values    |
|---------------|--------|---|-------------------------------------|-------------------|
| name          | String | Yes   | Resource Name                       | server1.cisco.com |
| id            | String | No  | Resource UUID, mandatory for update |                   |
| description   | String | No  |                                     |                   |
| deployTo      | String | Mandatory unless mappingGroup is set or unless deployType=ALL |                                     | network_device_id |
| deploy-Type   | Enum   | Yes   | Allowed values: ALL, ND, NDG        | ND                |
| host-Name     | String | Mandatory if hostIp is empty                                  |                                     | server1.cisco.com |
| sgt           | String | Mandatory unless mappingGroup is set                          |                                     | sgt_id            |
| hostIp        | String | Mandatory if hostName is empty – valid IPL                    |                                     |                   |
| mapping-Group | String | Mandatory unless sgt and deployTo and deployType are set      |                                     |                   |

**deploy\_ip\_to\_sgt\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy an IP to SGT mapping by ID. Only one Deploy process can run at any given time.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**deploy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *deploy\_ip\_to\_sgt\_mapping\_by\_id*

**deploy\_all\_ip\_to\_sgt\_mapping** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy all the IP to SGT mappings. Only one Deploy process can run at any given time.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**deploy\_all** (*headers=None*, *\*\*query\_parameters*)

Alias for *deploy\_all\_ip\_to\_sgt\_mapping*

**get\_deploy\_status\_ip\_to\_sgt\_mapping** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to get the IP to SGT mapping deployment status. Deploy Status will show last Deploy command output. The information will be saved until the next Deploy command.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_deploy\_status** (*headers=None, \*\*query\_parameters*)

Alias for *get\_deploy\_status\_ip\_to\_sgt\_mapping*

**get\_ip\_to\_sgt\_mapping\_by\_id** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an IP to SGT mapping by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_by\_id*

**update\_ip\_to\_sgt\_mapping\_by\_id** (*id, deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to update an IP to SGT mapping by ID.

**Parameters**

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deployType=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **host\_ip** (*string*) – Mandatory if hostName is empty -valid IP, property of the request body.

- **host\_name** (*string*) – Mandatory if hostIp is empty, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **mapping\_group** (*string*) – Mapping Group Id. Mandatory unless sgt and deployTo and deployType are set, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *deploy\_to=None*, *deploy\_type=None*, *host\_ip=None*, *host\_name=None*, *mapping\_group=None*, *name=None*, *sgt=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_ip\_to\_sgt\_mapping\_by\_id*

**delete\_ip\_to\_sgt\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an IP to SGT mapping.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_ip_to_sgt_mapping_by_id`*

**`get_ip_to_sgt_mapping`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the IP to SGT mappings. Filter: [hostName, groupName, ip, sgtName] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [hostName, groupName, ip, sgtName].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_ip\_to\_sgt\_mapping*

**`get_ip_to_sgt_mapping_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the IP to SGT mappings. Filter: [hostName, groupName, ip, sgtName] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [hostName, groupName, ip, sgtName].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_generator*

**create\_ip\_to\_sgt\_mapping** (*deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an IP to SGT mapping.

#### Parameters

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deployType=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **host\_ip** (*string*) – Mandatory if hostName is empty -valid IP, property of the request body.
- **host\_name** (*string*) – Mandatory if hostIp is empty, property of the request body.
- **mapping\_group** (*string*) – Mapping Group Id. Mandatory unless sgt and deployTo and deployType are set, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_ip\_to\_sgt\_mapping*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to IP to SGT mapping.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_ip\_to\_sgt\_mapping** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_ip\_to\_sgt\_mapping*

**monitor\_bulk\_status\_ip\_to\_sgt\_mapping** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_ip\_to\_sgt\_mapping*

## ip\_to\_sgt\_mapping\_group

### class IpToSgtMappingGroup

Identity Services Engine IPToSGTMappingGroup API (version: 3.1.1).

Wraps the Identity Services Engine IPToSGTMappingGroup API and exposes the API as native Python methods that return native Python objects.

IP To SGT Mapping Group API allows the client to add, delete, update, search and deploy IP to SGT mapping groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required  | Description                         | Default Values | Example Values    |
|-------------|--------|---|-------------------------------------|----------------|-------------------|
| name        | String | Yes   | Resource Name                       |                | groupA            |
| id          | String | No  | Resource UUID, mandatory for update |                |                   |
| description | String | No  |                                     |                |                   |
| deployTo    | String | Mandatory unless mappingGroup is set or unless deployType=ALL |                                     |                | network_device_id |
| deployType  | Enum   | Yes   | Allowed values: ALL, ND, NDG        | ALL            |                   |
| sgt         | String | Mandatory unless mappingGroup is set                          |                                     |                | sgt_id            |

**deploy\_ip\_to\_sgt\_mapping\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy an IP to SGT mapping group by ID. Only one Deploy process can run at any given time.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deploy_all_ip_to_sgt_mapping_group`** (*headers=None, \*\*query\_parameters*)

This API allows the client to deploy all the IP to SGT mapping groups. Only one Deploy process can run at any given time.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_deploy_status_ip_to_sgt_mapping_group`** (*headers=None, \*\*query\_parameters*)

This API allows the client to get the IP to SGT mapping group deployment status. Deploy Status will show last Deploy command output. The information will be saved until the next Deploy command.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_ip_to_sgt_mapping_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an IP to SGT mapping group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_ip_to_sgt_mapping_group_by_id`

**`update_ip_to_sgt_mapping_group_by_id`** (*id*, *deploy\_to=None*, *deploy\_type=None*,  
*name=None*, *sgt=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update an IP to SGT mapping group by ID.

**Parameters**

- **`deploy_to`** (*string*) – Mandatory unless `mappingGroup` is set or unless `deployType=ALL`, property of the request body.
- **`deploy_type`** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.



- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *deploy\_to=None*, *deploy\_type=None*, *name=None*, *sgt=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_ip\_to\_sgt\_mapping\_group\_by\_id*

**delete\_ip\_to\_sgt\_mapping\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes an IP to SGT mapping group.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_ip\_to\_sgt\_mapping\_group\_by\_id*

**get\_ip\_to\_sgt\_mapping\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
*sortasc=None*, *sortdsc=None*, *headers=None*,  
*\*\*query\_parameters*)

This API allows the client to get all the IP to SGT mapping groups. Filter: [name, sgt-Name] To search guest users by using toDate column, follow the format: DD- MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, sgtName].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_ip\_to\_sgt\_mapping\_group*

**get\_ip\_to\_sgt\_mapping\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the IP to SGT mapping groups. Filter: [name, sgt-Name] To search guest users by using toDate column, follow the format: DD- MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, sgtName].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_group\_generator*

**create\_ip\_to\_sgt\_mapping\_group** (*deploy\_to=None, deploy\_type=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an IP to SGT mapping group.

#### Parameters

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deploy-Type=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*deploy\_to=None, deploy\_type=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_ip\_to\_sgt\_mapping\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the IP to SGT mapping group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_ip\_to\_sgt\_mapping\_group** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_ip\_to\_sgt\_mapping\_group*

**monitor\_bulk\_status\_ip\_to\_sgt\_mapping\_group** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_ip\_to\_sgt\_mapping\_group*

## identity\_groups

### class IdentityGroups

Identity Services Engine IdentityGroups API (version: 3.1.1).

Wraps the Identity Services Engine IdentityGroups API and exposes the API as native Python methods that return native Python objects.

Identity Groups API allows the client to search identity groups.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                           |
|------------|------------------|-------------------|---------------------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version             |
| 1          | 1.1              | 2.4               | Added Create and GetByName operations |

## Resource Definition

| At-tribute   | Type   | Re-quired | Description                         | Example Values                                    |
|--------------|--------|-----------|-------------------------------------|---|
| name         | String | Yes       | Resource Name                       | GuestType_Weekly (default)                        |
| id           | String | No        | Resource UUID, mandatory for update | 9efe2310-8c01-11e6-996c-525400b48521              |
| descrip-tion | String | No        |                                     | Identity group mirroring the guest type           |
| parent       | String | Yes       |                                     | NAC Group:NAC:IdentityGroups:User Identity Groups |

**get\_identity\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity group by name.

### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_group\_by\_name*

**get\_identity\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity group by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_group\_by\_id*

**update\_identity\_group\_by\_id** (*id*, *description=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an identity group.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.



- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id, description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *update\_identity\_group\_by\_id*

**get\_identity\_groups** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity groups. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_identity\_groups*

**`get_identity_groups_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity groups. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **`RestResponse`**: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for [`get\_identity\_groups\_generator`](#)

**`create_identity_group`** (*description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
This API creates an identity group.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`parent`** (*string*) – parent, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** [\*RestResponse\*](#)

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`create`** (*description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for [`create\_identity\_group`](#)

**`get_version`** (*headers=None, \*\*query\_parameters*)  
This API helps to retrieve the version information related to identity group.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**identity\_sequence****class IdentitySequence**

Identity Services Engine IdentitySequence API (version: 3.1.1).

Wraps the Identity Services Engine IdentitySequence API and exposes the API as native Python methods that return native Python objects.

Identity Sequence API allows the client to add, delete, update and search Identity sequences.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |
| 1          | 1.1              | 2.4               | Added GetByName operation |

**Resource Definition**

| Attribute                        | Type    | Re-<br>quired | Description   | Example Values   |
|----------------------------------|---------|---------------|---|--|
| name                             | String  | Yes           | Resource Name   | All_User_ID_Stores   |
| id                               | String  | No            | Resource UUID, mandatory for update   | 93246270-8c01-11e6-996c-525400b48521   |
| description                      | String  | No            |   | A built-in Identity Sequence to include all User Identity Stores   |
| breakOn-StoreFail                | Boolean | Yes           | Do not access other stores in the sequence If a selected identity store cannot be accessed for authentication | false  |
| certificateAuthenticationProfile | String  | Yes           | Certificate Authentication Profile, empty if doesn't exist  | Preloaded_Certificate_Profile  |
| idSeqItem                        | List    | Yes           | List of id stores comprised of id store name and order  | [ { "idstore": "Internal Users", "order": 1 }, { "idstore": "All_AD_Join_Points", "order": 2 }, { "idstore": "Guest Users", "order": 3 } ] |

**get\_identity\_sequence\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity sequence by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_sequence\_by\_name*

**get\_identity\_sequence\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity sequence by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_sequence\_by\_id*

**update\_identity\_sequence\_by\_id** (*id*, *break\_on\_store\_fail=None*, *certificate\_authentication\_profile=None*, *description=None*, *id\_seq\_item=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an identity sequence. Partial update is not supported.

### Parameters

- **break\_on\_store\_fail** (*boolean*) – breakOnStoreFail, property of the request body.
- **certificate\_authentication\_profile** (*string*) – certificateAuthenticationProfile, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **id\_seq\_item** (*list*) – idSeqItem, property of the request body (list of objects).
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *break\_on\_store\_fail=None*, *certificate\_authentication\_profile=None*, *description=None*, *id\_seq\_item=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, **\*\*query\_parameters**)

Alias for *update\_identity\_sequence\_by\_id*

**delete\_identity\_sequence\_by\_id** (*id*, *headers=None*, **\*\*query\_parameters**)

This API deletes an identity sequence.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, **\*\*query\_parameters**)

Alias for *delete\_identity\_sequence\_by\_id*

**get\_identity\_sequence** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_identity\_sequence*

**get\_identity\_sequence\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response



**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_identity\_sequence\_generator*

**create\_identity\_sequence** (*break\_on\_store\_fail=None, certificate\_authentication\_profile=None, description=None, id\_seq\_item=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an identity sequence.

**Parameters**

- **break\_on\_store\_fail** (*boolean*) – breakOnStoreFail, property of the request body.
- **certificate\_authentication\_profile** (*string*) – certificateAuthenticationProfile, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id\_seq\_item** (*list*) – idSeqItem, property of the request body (list of objects).
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*break\_on\_store\_fail=None, certificate\_authentication\_profile=None, description=None, id\_seq\_item=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_identity\_sequence*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the identity sequence.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## internal\_user

### class InternalUser

Identity Services Engine InternalUser API (version: 3.1.1).

Wraps the Identity Services Engine InternalUser API and exposes the API as native Python methods that return native Python objects.

Internal User API allows the client to add, delete, update and search internal users.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                              | Revision Modification | Revision Modification              |
|------------|------------------|-------------------|--|-----------------------|------------------------------------|
|            |                  |                   |  | Attribute             | Description                        |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version                |                       |                                    |
| 1          | 1.1              | 2.6               | Support new attribute Proxy Dead Timeout | proxyTime-out         | Added int Attribute 'proxyTimeout' |

## Resource Definition

| Attribute          | Type    | Required | Description   | Default Values | Example Values                       |
|--------------------|---------|----------|---|----------------|--------------------------------------|
| name               | String  | Yes      | Resource Name   |                | name                                 |
| id                 | String  | No       | Resource UUID, mandatory for update   |                | b24b09e2-16f8-4e48-ace1-2c262a9449f1 |
| description        | String  | No       |   |                | description                          |
| changePassword     | Boolean | Yes      |   | true           |                                      |
| email              | String  | No       |   |                | email@domain.com                     |
| enablePassword     | String  | No       | EnablePassword field is added in ISE 2.0 to support T+  |                | enablePassword                       |
| enabled            | Boolean | Yes      | Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSObjectURL]?filter=enabled.EQ.Enabled' |                | true                                 |
| custom-Attributes  | String  | No       | Key value map   |                | { "key1" : "value1" }                |
| firstName          | String  | No       |   |                | firstName                            |
| identity-Groups    | String  | No       | CSV of identity group IDs   |                | identity-Groups                      |
| lastName           | String  | No       |   |                | lastName                             |
| password           | String  | No       |   |                | password                             |
| passwordID-Store   | String  | Yes      | The id store where the internal user's password is kept   | Internal Users |                                      |
| expiry-DateEnabled | Boolean | No       |   | false          |                                      |
| expiry-Date        | String  | No       | To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD'   |                | 2021-05-19                           |

**get\_internal\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an internal user by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_by\_name*

**update\_internal\_user\_by\_name** (*name*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *id=None*, *identity\_groups=None*, *last\_name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an internal user by name.

#### Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSOb jectURL]?filter=enabled.EQ.Enabled', property of the request body.
- **expiry\_date** (*string*) – To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD', property of the request body.

- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **id** (*string*) – id, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user’s password is kept, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *id=None*, *identity\_groups=None*, *last\_name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_internal\_user\_by\_name*

**delete\_internal\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes an internal user by name.

### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_internal\_user\_by\_name*

**get\_internal\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an internal user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_by\_id*

```
update_internal_user_by_id(id, change_password=None, custom_attributes=None, description=None, email=None, enable_password=None, enabled=None, expiry_date=None, expiry_date_enabled=None, first_name=None, identity_groups=None, last_name=None, name=None, password=None, password_idstore=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update an internal user by ID.

#### Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be ‘Enabled’ or ‘Disabled’. The values are case sensitive. For example, ‘[ERSOb jectURL]?filter=enabled.EQ.Enabled’, property of the request body.
- **expiry\_date** (*string*) – To store the internal user’s expiry date information. It’s format is = ‘YYYY-MM-DD’, property of the request body.
- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user’s password is kept, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *identity\_groups=None*, *last\_name=None*, *name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *`update_internal_user_by_id`*

**`delete_internal_user_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an internal user by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_internal_user_by_id`*

**`get_internal_user`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the internal users. Filter: [firstName, lastName, identityGroup, name, description, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].



## Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user*

**get\_internal\_user\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the internal users. Filter: [firstName, lastName, identityGroup, name, description, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_generator*

**create\_internal\_user** (*change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *identity\_groups=None*, *last\_name=None*, *name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates an internal user.

## Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSObjectURL]?filter=enabled.EQ.Enabled', property of the request body.
- **expiry\_date** (*string*) – To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD', property of the request body.
- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user's password is kept, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (change_password=None, custom_attributes=None, description=None, email=None, enable_password=None, enabled=None, expiry_date=None, expiry_date_enabled=None, first_name=None, identity_groups=None, last_name=None, name=None, password=None, password_idstore=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `create_internal_user`

```
get_version (headers=None, **query_parameters)
```

This API helps to retrieve the version information related to the internal user.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## licensing

### **class Licensing**

Identity Services Engine Licensing API (version: 3.1.1).

Wraps the Identity Services Engine Licensing API and exposes the API as native Python methods that return native Python objects.

```
get_connection_type (headers=None, **query_parameters)
```

Get connection type.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_eval_license_info`** (*headers=None, \*\*query\_parameters*)

Get registration information.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_feature_to_tier_mapping`** (*headers=None, \*\*query\_parameters*)

Get feature to tier mapping.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of `MyDict` objects. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_registration_info`** (*headers=None, \*\*query\_parameters*)

Get registration information.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`create_registration_info`** (*connection\_type=None, registration\_type=None, ssm\_on\_prem\_server=None, tier=None, token=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

License Configure registration information.

**Parameters**

- **`connection_type`** (*string*) – `connectionType`, property of the request body. Available values are 'HTTP\_DIRECT', 'PROXY', 'SSM\_ONPREM\_SERVER' and 'TRANSPORT\_GATEWAY'.
- **`registration_type`** (*string*) – `registrationType`, property of the request body. Available values are 'DEREGISTER', 'REGISTER', 'RENEW' and 'UPDATE'.
- **`ssm_on_prem_server`** (*string*) – If connection type is selected as SSM\_ONPREM\_SERVER, then IP address or the hostname (or FQDN) of the SSM On-Prem server Host., property of the request body.
- **`tier`** (*list*) – `tier`, property of the request body (list of strings. Available values are 'ADVANTAGE', 'DEVICEADMIN', 'ESSENTIAL', 'PREMIER' and 'VM').

- **token** (*string*) – token, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(list): A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_smart\_state** (*headers=None, \*\*query\_parameters*)  
Get smart license information.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**configure\_smart\_state** (*headers=None, \*\*query\_parameters*)  
License Configure smart state information.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_tier\_state\_info** (*headers=None, \*\*query\_parameters*)

Get tier state information.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_tier\_state\_info** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Applicable values for name & status parameters: name: ESSENTIAL, ADVANTAGE, PREMIER, DE-VICEADMIN status: ENABLED, DISABLED .

**Parameters**



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## mdm

### class Mdm

Identity Services Engine MDM API (version: 3.1.1).

Wraps the Identity Services Engine MDM API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_endpoints** (*headers=None*, *\*\*query\_parameters*)  
getEndpoints.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_endpoints*

**get\_endpoint\_by\_mac\_address** (*headers=None, \*\*query\_parameters*)

*getEndpointByMacAddress.*

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_endpoints\_by\_type** (*headers=None, \*\*query\_parameters*)

*getEndpointsByType.*

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_endpoints\_by\_os\_type** (*headers=None, \*\*query\_parameters*)  
getEndpointsByOsType.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## misc

### class Misc

Identity Services Engine Misc API (version: 3.1.1).

Wraps the Identity Services Engine Misc API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 MNT REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_mnt*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_active\_count** (*headers=None*, *\*\*query\_parameters*)

ActiveCount.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_active\_list** (*headers=None*, *\*\*query\_parameters*)

ActiveList.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_auth\_list** (*headers=None, \*\*query\_parameters*)  
Session/AuthList.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_posture\_count** (*headers=None, \*\*query\_parameters*)  
PostureCount.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_profiler_count`** (*headers=None, \*\*query\_parameters*)  
ProfilerCount.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_mac`** (*mac, headers=None, \*\*query\_parameters*)  
Sessions by MAC.

**Parameters**

- **`mac`** (*basestring*) – mac path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_username`** (*username*, *headers=None*, *\*\*query\_parameters*)  
Sessions by Username.

**Parameters**

- **`username`** (*basestring*) – username path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_nas_ip`** (*nas\_ipv4*, *headers=None*, *\*\*query\_parameters*)  
Sessions by NAS IP.

**Parameters**

- **`nas_ipv4`** (*basestring*) – nas\_ipv4 path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_endpoint_ip`** (*endpoint\_ipv4*, *headers=None*, *\*\*query\_parameters*)  
Sessions by Endpoint IP.

**Parameters**

- **`endpoint_ipv4`** (*basestring*) – `endpoint_ipv4` path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_session_id`** (*session\_id*, *headers=None*, *\*\*query\_parameters*)  
Sessions by SessionID.

**Parameters**

- **`session_id`** (*basestring*) – `session_id` path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_all_sessions`** (*headers=None, \*\*query\_parameters*)

Delete All Sessions.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_mnt_version`** (*headers=None, \*\*query\_parameters*)

MNT Version.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_failure_reasons`** (*headers=None, \*\*query\_parameters*)  
FailureReasons.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_authentication_status_by_mac`** (*mac, records, seconds, headers=None, \*\*query\_parameters*)

AuthenticationStatus by MAC.

**Parameters**

- **`mac`** (*basestring*) – MAC path parameter.
- **`seconds`** (*basestring*) – SECONDS path parameter.
- **`records`** (*basestring*) – RECORDS path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`session_reauthentication_by_mac`** (*endpoint\_mac*, *psn\_name*, *reauth\_type*, *headers=None*,  
*\*\*query\_parameters*)

Session Reauthentication by MAC.

**Parameters**

- **`psn_name`** (*basestring*) – PSN\_NAME path parameter.
- **`endpoint_mac`** (*basestring*) – ENDPOINT\_MAC path parameter.
- **`reauth_type`** (*basestring*) – REAUTH\_TYPE path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`session_disconnect`** (*disconnect\_type*, *endpoint\_ip*, *mac*, *nas\_ipv4*, *psn\_name*, *headers=None*,  
*\*\*query\_parameters*)

Session Disconnect.

**Parameters**

- **`endpoint_ip`** (*basestring*) – ENDPOINT\_IP path parameter.

- **psn\_name** (*basestring*) – PSN\_NAME path parameter.
- **mac** (*basestring*) – MAC path parameter.
- **disconnect\_type** (*basestring*) – DISCONNECT\_TYPE path parameter.
- **nas\_ipv4** (*basestring*) – NAS\_IPV4 path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_account\_status\_by\_mac** (*duration, mac, headers=None, \*\*query\_parameters*)  
AccountStatus by MAC.

#### Parameters

- **mac** (*basestring*) – mac path parameter.
- **duration** (*basestring*) – duration path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

## my\_device\_portal

### class MyDevicePortal

Identity Services Engine MyDevicePortal API (version: 3.1.1).

Wraps the Identity Services Engine MyDevicePortal API and exposes the API as native Python methods that return native Python objects.

My Device Portal API provides the ability to create, read, update, delete and search my device portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Required | Description                                 | Default Values | Example Values  |
|---------------|--------|----------|---|----------------|---|
| name          | String | Yes      | Resource Name                               |                | My Devices Portal (default)   |
| id            | String | No       | Resource UUID, mandatory for update         |                | 901f1b37-4a2f-46d9-8653-d925d2dde3aa  |
| description   | String | No       |   |                | Default portal used by employees to register and manage their personal devices                                    |
| portalTestUrl | String | No       | URL to bring up a test page for this portal |                | <a href="https://{ise-ip}:8443/mydevicesportal/PortalSetup">https://{ise-ip}:8443/mydevicesportal/PortalSetup</a> |

Continued on next page

Table 23 – continued from previous page

|                         |         |     |  |          |                                      |
|-------------------------|---------|-----|--|----------|--------------------------------------|
| portalType              | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELF-REGGUEST, SPONSOR, SPONSORED, GUEST                                   | MYDEVICE |                                      |
| settings                | List    | No  | Defines all of the settings groups available for a Mydevice portal   |          |                                      |
| • portalSettings        | List    | No  | The port, interface, certificate, and other basic settings of a portal   |          |                                      |
| • httpsPort             | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                                      |          | 8443                                 |
| • allowedInterfaces     | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 |          | [ “eth0”, “bond0” ]                  |
| • certificateGroupTag   | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  |          | Default Portal Certificate Group     |
| • endpointIdentityGroup | String  | Yes | Unique Id of the endpoint identity group where user’s devices will be added. Used only in Hotspot Portal                 |          | aa178bd0-8bff-11e6-996c-525400b48521 |

Continued on next page

Table 23 – continued from previous page

|                                    |         |    |  |        |                  |
|------------------------------------|---------|----|--|--------|------------------|
| • displayLang                      | Enum    | No | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  |        | USEBROWSERLOCALE |
| • fallbackLanguage                 | String  | No | Used when displayLang = USE-BROWSER-LOCALE   |        | English          |
| • alwaysUsedLanguage               | String  | No | Used when displayLang = ALWAYSUSE  |        | English          |
| • loginPageSettings                | List    | No | Portal Login Page settings groups follow   |        |                  |
| • maxFailedAttemptsBeforeRateLimit | Integer | No | Maximum failed login attempts before rate limiting   | 5      |                  |
| • timeBetweenLoginsDuringRateLimit | Integer | No |  | 2      |                  |
| • includeAup                       | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login   | false  |                  |
| • aupDisplay                       | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK - ONPAGE, - ASLINK | ASLINK |                  |
| • requireAupAcceptance             | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true   | false  |                  |

Continued on next page

Table 23 – continued from previous page

|                                  |         |    |  |            |  |
|----------------------------------|---------|----|--|------------|--|
| • requireScrolling               | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • aupSettings                    | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| • displayFrequency               | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| • includeAup                     | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| • requireScrolling               | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • displayFrequencyIntervalDays   | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |
| • employeeChangePasswordSettings | List    | No |  |            |  |
| • allowEmployeeToChangePwd       | Boolean | No | Allow employees to change their own passwords  | false      |  |

Continued on next page



Table 23 – continued from previous page

|                              |         |    |   |       |      |
|------------------------------|---------|----|---|-------|------|
| •<br>postLoginBannerSettings | List    | No |   |       |      |
| •<br>includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |      |
| •<br>supportInfoSettings     | List    | No | Portal Support Information Settings                                     |       |      |
| •<br>includeSupportInfoPage  | Boolean | No |   | false |      |
| •<br>includeMacAddr          | Boolean | No |   | false |      |
| •<br>includeIpAddress        | Boolean | No |   | false |      |
| •<br>includeBrowserUserAgent | Boolean | No |   | false |      |
| •<br>includePolicyServer     | Boolean | No |   | false |      |
| •<br>includeFailureCode      | Boolean | No |   | false |      |
| •<br>emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |       | HIDE |

Continued on next page

Table 23 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 23 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 23 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | My Devices Portal              |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 23 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_my\_device\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a my device portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_my\_device\_portal\_by\_id*

**update\_my\_device\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a my device portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a Mydevice portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_my\_device\_portal\_by\_id*

**delete\_my\_device\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a my device portal by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_my_device_portal_by_id`*

**`get_my_device_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the my device portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for `get_my_device_portal`

**`get_my_device_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the my device portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.



- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_my\_device\_portal\_generator*

**create\_my\_device\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a my device portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDGUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a Mydevice portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_my\_device\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the my device portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## native\_suppliant\_profile

**class NativeSuppliantProfile**

Identity Services Engine NativeSuppliantProfile API (version: 3.1.1).

Wraps the Identity Services Engine NativeSuppliantProfile API and exposes the API as native Python methods that return native Python objects.

Native suppliant profile API provides the ability to update, delete and search native suppliant profiles.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

## Resource Definition

| Attribute               | Type   | Required | Description  | Example Values   |
|-------------------------|--------|----------|--|--|
| name                    | String | Yes      | Resource Name  | Cisco-ISE-NSP  |
| id                      | String | No       | Resource UUID, mandatory for update  | b8ce01e6-b150-4d4e-9698-40e48d5e0197   |
| description             | String | No       |  | Pre-configured Native Supplicant Profile. The SSID Will Need To Be Customized For Your Environment |
| wirelessProfiles        | List   | Yes      | List of Wireless profiles  |  |
| • ssid                  | String | Yes      | SSID for the wireless profile  | ISE  |
| • allowedProtocol       | Enum   | Yes      | Allowed protocol for the wireless profile.                                     | TLS  |
| • certificateTemplateId | String | No       | Certificate template ID  | 0ca8f1b6-500d-560b-e053-75189a0ab0d1   |
| • actionType            | Enum   | Yes      | Action type for WifiProfile.   | UPDATE   |
| • previousSsid          | String | Yes      | Previous ssid for WifiProfile (required for updating existing WirelessProfile) | ssid1  |

**get\_native\_supPLICANT\_profile\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a native supplicant profile by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_native_suppllicant_profile_by_id`*

**`update_native_suppllicant_profile_by_id`** (*id*, *description=None*, *name=None*, *wireless\_profiles=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a native suppllicant profile.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`wireless_profiles`** (*list*) – wirelessProfiles, property of the request body (list of objects).
- **`id`** – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id**(*id*, *description=None*, *name=None*, *wireless\_profiles=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_native\_suppllicant\_profile\_by\_id*

**delete\_native\_suppllicant\_profile\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes a native suppllicant profile.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_native\_suppllicant\_profile\_by\_id*

**get\_native\_suppllicant\_profile**(*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the native suppllicant profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_native_suppllicant_profile`*

**`get_native_suppllicant_profile_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the native suppllicant profiles.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_native_suppllicant_profile_generator`*

**`get_version`** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the native suppllicant profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

### network\_access\_authentication\_rules

#### class NetworkAccessAuthenticationRules

Identity Services Engine Network Access - Authentication Rules API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Authentication Rules API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_authentication\_rules** (*policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Network Access Get authentication rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authentication\_rules*

**create\_network\_access\_authentication\_rule** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Create authentication rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authentication policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **identity\_source\_name** (*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**



- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *create\_network\_access\_authentication\_rule*

**reset\_hit\_counts\_network\_access\_authentication\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for Authentication Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *reset\_hit\_counts\_network\_access\_authentication\_rules*

**get\_network\_access\_authentication\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get rule attributes.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_network_access_authentication_rule_by_id`

**`update_network_access_authentication_rule_by_id`** (*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update rule.

**Parameters**

- **`identity_source_name`** (*string*) – Identity source name from the identity stores, property of the request body.
- **`if_auth_fail`** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **`if_process_fail`** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **`if_user_not_found`** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **`link`** (*object*) – link, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_authentication\_rule\_by\_id*

**delete\_network\_access\_authentication\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete rule.

**Parameters**

- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_access\_authentication\_rule\_by\_id*

## network\_access\_authorization\_exception\_rules

```
class NetworkAccessAuthorizationExceptionRules
```

# Identity Services Engine Network Access - Authorization Exception Rules API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Authorization Exception Rules API and exposes the API as native Python methods that return native Python objects.

```
get_network_access_local_exception_rules(policy_id, headers=None,
                                         **query_parameters)
```

Network Access Get local exception rules.

## Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_all (policy_id, headers=None, **query_parameters)
```

Alias for `get_network_access_local_exception_rules`

```
create_network_access_local_exception_rule(policy_id,      link=None,      pro-  
                                           file=None,      rule=None,      secu-  
                                           rity_group=None,      headers=None,  
payload=None, active_validation=True,  
**query_parameters)
```

**Network Access** Create local authorization exception rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model `ConditionReference` or dynamically built conditions which are not stored in the conditions Library, using models `ConditionAttributes`, `ConditionAndBlock`, `ConditionOrBlock` . .

## Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).

- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *create\_network\_access\_local\_exception\_rule*

**reset\_hit\_counts\_network\_access\_local\_exceptions** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for local exceptions.

### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_network\_access\_local\_exceptions*

**get\_network\_access\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Network Access Get local exception rule attributes.

Parameters

- **policy\_id**(*basestring*) – policyId path parameter. Policy id.
- **id**(*basestring*) – id path parameter. Rule id.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_local\_exception\_rule\_by\_id*

**update\_network\_access\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *link=None*,  
*profile=None*, *rule=None*,  
*security\_group=None*, *headers=None*, *payload=None*,  
*active\_validation=True*,  
*\*\*query\_parameters*)

Network Access Update local exception rule.

Parameters

- **link**(*object*) – link, property of the request body.
- **profile**(*list*) – The authorization profile/s, property of the request body (list of strings).

- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_network\_access\_local\_exception\_rule\_by\_id*

**delete\_network\_access\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete local exception rule.

### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *`delete_network_access_local_exception_rule_by_id`*

## **`network_access_authorization_global_exception_rules`**

**`class NetworkAccessAuthorizationGlobalExceptionRules`**

Identity Services Engine Network Access - Authorization Global Exception Rules API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Authorization Global Exception Rules API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_policy_set_global_exception_rules`** (*headers=None, \*\*query\_parameters*)

Network Access Get global exception rules.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_network_access_policy_set_global_exception_rules`*



```
create_network_access_policy_set_global_exception_rule (link=None, profile=None, rule=None, security_group=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Network Access Create global exception authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (link=None, profile=None, rule=None, security_group=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *create\_network\_access\_policy\_set\_global\_exception\_rule*

```
reset_hit_counts_network_access_global_exceptions (headers=None, **query_parameters)
```

Network Access Reset HitCount for Global Exceptions.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)

Alias for *reset\_hit\_counts\_network\_access\_global\_exceptions*

**get\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Network Access Get global exception rule attributes.

**Parameters**

- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_by_id(id, headers=None, **query_parameters)
```

Alias for `get_network_access_policy_set_global_exception_rule_by_id`

```
update_network_access_policy_set_global_exception_rule_by_id(id,
                                                             link=None,
                                                             profile=None,
                                                             rule=None,
                                                             secu-
                                                             rity_group=None,
                                                             head-
                                                             ers=None,
                                                             pay-
                                                             load=None,
                                                             ac-
                                                             tive_validation=True,
                                                             **query_parameters)
```

Network Access Update global exception authorization rule.

### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id*

**delete\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete global exception authorization rule.

#### Parameters

- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id*

## network\_access\_authorization\_rules

### class NetworkAccessAuthorizationRules

Identity Services Engine Network Access - Authorization Rules API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Authorization Rules API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get authorization rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authorization\_rules*

**`create_network_access_authorization_rule`** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Create authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model `ConditionReference` or dynamically built conditions which are not stored in the conditions Library, using models `ConditionAttributes`, `ConditionAndBlock`, `ConditionOrBlock` . .

**Parameters**

- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`security_group`** (*string*) – Security group used in authorization policies, property of the request body.
- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`create`** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_network\_access\_authorization\_rule*

**`reset_hit_counts_network_access_authorization_rules`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for Authorization Rules.

**Parameters**

- **`policy_id`** (*basestring*) – `policyId` path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`reset_hit_counts_by_id`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_network\_access\_authorization\_rules*

**`get_network_access_authorization_rule_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get authorization rule attributes.

**Parameters**

- **`policy_id`** (*basestring*) – `policyId` path parameter. Policy id.
- **`id`** (*basestring*) – `id` path parameter. Rule id.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authorization\_rule\_by\_id*

**update\_network\_access\_authorization\_rule\_by\_id** (*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update authorization rule.

### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_network\_access\_authorization\_rule\_by\_id*

**`delete_network_access_authorization_rule_by_id`**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete authorization rule.

**Parameters**

- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_authorization\_rule\_by\_id*



## network\_access\_conditions

### class NetworkAccessConditions

Identity Services Engine Network Access - Conditions API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_conditions** (*headers=None, \*\*query\_parameters*)

Network Access Returns all library conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_conditions*

**create\_network\_access\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates a library condition: Library Condition has hierarchical structure which define a set of condition for which authentication and authorization policy rules could be match. Condition can be compose from single dictionary attribute name and value using model LibraryConditionAttributes , or from combination of dictionary attributes with logical operation of AND/OR between them, using models: LibraryConditionAndBlock or LibraryConditionOrBlock . When using AND/OR blocks, the condition will include inner layers inside these blocks, these layers are built using the inner condition models: ConditionAttributes , ConditionAndBlock , ConditionOrBlock , that represent dynamically built Conditions which are not stored in the conditions Library, or using ConditionReference , which includes an ID to existing stored condition in the library. The LibraryCondition models can only be used in the

outer-most layer (root of the condition) and must always include the condition name. When using one of the 3 inner condition models ( ConditionAttributes, ConditionAndBlock, ConditionOrBlock ), condition name cannot be included in the request, since these will not be stored in the conditions library, and used only as inner members of the root condition. When using ConditionReference model in inner layers, the condition name is not required. ConditionReference objects can also include a reference ID to a condition of type TimeAndDate . .

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttr” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate con-dition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no spe-cific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.

- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None,
        dates_range=None, dates_range_exception=None, description=None,
        dictionary_name=None, dictionary_value=None, hours_range=None,
        hours_range_exception=None, id=None, is_negate=None, link=None, name=None, operator=None,
        week_days=None, week_days_exception=None, headers=None, payload=None,
        active_validation=True, **query_parameters)
```

Alias for *create\_network\_access\_condition*

```
get_network_access_conditions_for_authentication_rules (headers=None,
                                                         **query_parameters)
```

Network Access Returns list of library conditions for Authentication rules scope.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_network_access_conditions_for_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of library conditions for Authorization rules scope.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_network_access_condition_by_name`** (*name, headers=None, \*\*query\_parameters*)

Network Access Returns a library condition.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_condition\_by\_name*

**`update_network_access_condition_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update library condition using condition name.

## Parameters

- **`attribute_name`** (*string*) – Dictionary attribute name, property of the request body.
- **`attribute_value`** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **`children`** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **`condition_type`** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **`dates_range`** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for

start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.

- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **name** – name path parameter. Condition name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *`update_network_access_condition_by_name`*

**`delete_network_access_condition_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete a library condition using condition Name.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_condition_by_name`*

**`get_network_access_conditions_for_policy_sets`** (*headers=None*, *\*\*query\_parameters*)

Network Access Returns list of library conditions for PolicySet scope.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_for\_policy\_sets** (*headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_conditions\_for\_policy\_sets*

**get\_network\_access\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Network Access Returns a library condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_condition\_by\_id*



```
update_network_access_condition_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Network Access Update library condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*basestring*) – id, property of the request body.

- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_network_access_condition_by_id`

```
delete_network_access_condition_by_id(id, headers=None, **query_parameters)
```

Network Access Delete a library condition.

**Parameters**

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_network\_access\_condition\_by\_id*

**network\_access\_dictionary****class NetworkAccessDictionary**

Identity Services Engine Network Access - Dictionary API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Dictionary API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionaries** (*headers=None*, *\*\*query\_parameters*)  
 Get all Dictionaries.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries*

**create\_network\_access\_dictionaries** (*description=None, dictionary\_attr\_type=None, id=None, link=None, name=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Create a new Dictionary.

Parameters

- **description** (*string*) – The description of the Dictionary, property of the request body.
- **dictionary\_attr\_type** (*string*) – The dictionary attribute type, property of the request body. Available values are ‘ENTITY\_ATTR’, ‘MSG\_ATTR’ and ‘PIP\_ATTR’.
- **id** (*string*) – Identifier for the dictionary, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – The dictionary name, property of the request body.
- **version** (*string*) – The dictionary version, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, dictionary\_attr\_type=None, id=None, link=None, name=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_access\_dictionaries*

**get\_network\_access\_dictionary\_by\_name** (*name, headers=None, \*\*query\_parameters*)  
GET a dictionary by name.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name, headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_dictionary\_by\_name*

**update\_network\_access\_dictionary\_by\_name** (*name, description=None, dictionary\_attr\_type=None, id=None, link=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Update a Dictionary.

#### Parameters

- **description** (*string*) – The description of the Dictionary, property of the request body.
- **dictionary\_attr\_type** (*string*) – The dictionary attribute type, property of the request body. Available values are 'ENTITY\_ATTR', 'MSG\_ATTR' and 'PIP\_ATTR'.
- **id** (*string*) – Identifier for the dictionary, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – The dictionary name, property of the request body.
- **version** (*string*) – The dictionary version, property of the request body.
- **name** – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *description=None*, *dictionary\_attr\_type=None*, *id=None*, *link=None*, *version=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_dictionary\_by\_name*

**delete\_network\_access\_dictionary\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete a Dictionary.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_network\_access\_dictionary\_by\_name*

## network\_access\_dictionary\_attribute

### class NetworkAccessDictionaryAttribute

Identity Services Engine Network Access - Dictionary Attribute API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Dictionary Attribute API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionary\_attributes\_by\_dictionary\_name** (*dictionary\_name*,  
*headers=None*,  
*\*\*query\_parameters*)

Returns a list of Dictionary Attributes for an existing Dictionary.

#### Parameters

- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*dictionary\_name*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *get\_network\_access\_dictionary\_attributes\_by\_dictionary\_name*

**create\_network\_access\_dictionary\_attribute** (*dictionary\_name*, *allowed\_values=None*, *data\_type=None*,  
*description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *name=None*,  
*headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Create a new Dictionary Attribute for an existing Dictionary.

### Parameters

- **allowed\_values** (*list*) – all of the allowed values for the dictionary attribute, property of the request body (list of objects).
- **data\_type** (*string*) – the data type for the dictionary attribute, property of the request body. Available values are 'BOOLEAN', 'DATE', 'FLOAT', 'INT', 'IP', 'IPV4', 'IPV6', 'IPV6INTERFACE', 'IPV6PREFIX', 'LONG', 'OCTET\_STRING', 'STRING', 'UINT64' and 'UNIT32'.
- **description** (*string*) – The description of the Dictionary attribute, property of the request body.
- **dictionary\_name** (*basestring*) – the name of the dictionary which the dictionary attribute belongs to, property of the request body.
- **direction\_type** (*string*) – the direction for the useage of the dictionary attribute, property of the request body. Available values are 'BOTH', 'IN', 'NONE' and 'OUT'.
- **id** (*string*) – Identifier for the dictionary attribute, property of the request body.
- **internal\_name** (*string*) – the internal name of the dictionary attribute, property of the request body.
- **name** (*string*) – The dictionary attribute's name, property of the request body.
- **dictionary\_name** – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*dictionary\_name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *create\_network\_access\_dictionary\_attribute*



**get\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*, *name*, *headers=None*, *\*\*query\_parameters*)

Get a Dictionary Attribute.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary attribute name.
- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*dictionary\_name*, *name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_dictionary\_attribute\_by\_name*

**update\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*, *name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Update a Dictionary Attribute.

#### Parameters

- **allowed\_values** (*list*) – all of the allowed values for the dictionary attribute, property of the request body (list of objects).
- **data\_type** (*string*) – the data type for the dictionary attribute, property of the request body. Available values are 'BOOLEAN', 'DATE', 'FLOAT', 'INT', 'IP', 'IPV4', 'IPV6', 'IPV6INTERFACE', 'IPV6PREFIX', 'LONG', 'OCTET\_STRING', 'STRING', 'UINT64' and 'UNIT32'.
- **description** (*string*) – The description of the Dictionary attribute, property of the request body.

- **dictionary\_name** (*basestring*) – the name of the dictionary which the dictionary attribute belongs to, property of the request body.
- **direction\_type** (*string*) – the direction for the useage of the dictionary attribute, property of the request body. Available values are 'BOTH', 'IN', 'NONE' and 'OUT'.
- **id** (*string*) – Identifier for the dictionary attribute, property of the request body.
- **internal\_name** (*string*) – the internal name of the dictionary attribute, property of the request body.
- **name** (*basestring*) – The dictionary attribute's name, property of the request body.
- **name** – name path parameter. the dictionary attribute name.
- **dictionary\_name** – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*dictionary\_name*, *name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_dictionary\_attribute\_by\_name*

**delete\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*,  
*name*, *headers=None*,  
*\*\*query\_parameters*)

Delete a Dictionary Attribute.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary attribute name.
- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*dictionary\_name, name, headers=None, \*\*query\_parameters*)  
Alias for *delete\_network\_access\_dictionary\_attribute\_by\_name*

### network\_access\_dictionary\_attributes\_list

#### class NetworkAccessDictionaryAttributesList

Identity Services Engine Network Access - Dictionary Attributes List API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Dictionary Attributes List API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionaries\_authentication** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authentication.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_authentication** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries\_authentication*

**get\_network\_access\_dictionaries\_authorization** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authorization.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_authorization** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries\_authorization*

**get\_network\_access\_dictionaries\_policy\_set** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for policysset.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_policy\_set** (*headers=None, \*\*query\_parameters*)  
 Alias for *get\_network\_access\_dictionaries\_policy\_set*

**network\_access\_identity\_stores****class NetworkAccessIdentityStores**

Identity Services Engine Network Access - Identity Stores API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Identity Stores API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_identity\_stores** (*headers=None, \*\*query\_parameters*)  
 Network Access Return list of identity stores for authentication policy definition. (Other CRUD APIs available through ERS).

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)  
 Alias for *get\_network\_access\_identity\_stores*

## network\_access\_network\_conditions

### class NetworkAccessNetworkConditions

Identity Services Engine Network Access - Network Conditions API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Network Conditions API and exposes the API as native Python methods that return native Python objects.

Policy APIs for manage Policy Sets, authorization policies, authentication policies, and policy elements.

**get\_network\_access\_network\_conditions** (*headers=None, \*\*query\_parameters*)

Network Access Returns a list of network conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_network\_conditions*

**create\_network\_access\_network\_condition** (*cli\_dnis\_list=None, condition\_type=None, description=None, device\_group\_list=None, device\_list=None, id=None, ip\_addr\_list=None, link=None, mac\_addr\_list=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates network condition.

#### Parameters

- **cli\_dnis\_list** (*list*) – This field should contain a Caller ID (CLI), comma, and Called ID (DNIS). Line format Caller ID (CLI), Called ID (DNIS), property of the request body (list of strings).
- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are 'DeviceCondition', 'DevicePortCondition' and 'EndstationCondition'.

- **description** (*string*) – description, property of the request body.
- **device\_group\_list** (*list*) – This field should contain a tuple with NDG Root, comma, and an NDG (that it under the root). Line format NDG Root Name, NDG, Port, property of the request body (list of strings).
- **device\_list** (*list*) – This field should contain Device Name. The device name must be the same as the name field in a Network Device object. Line format Device Name, property of the request body (list of strings).
- **id** (*string*) – id, property of the request body.
- **ip\_addr\_list** (*list*) – This field should contain IP address or subnet. IP address can be IPV4 format (n.n.n.n) or IPV6 format (n:n:n:n:n:n:n). IP subnet can be IPV4 format (n.n.n.n/m) or IPV6 format (n:n:n:n:n:n:n/m). Line format IP Address or subnet, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **mac\_addr\_list** (*list*) – This field should contain Endstation MAC address, comma, and Destination MAC addresses. Each Max address must include twelve hexadecimal digits using formats nn:nn:nn:nn:nn:nn or nn-nn-nn-nn-nn-nn or nnnn.nnnn.nnnn or nnnnnnnnnnnn. Line format Endstation MAC, Destination MAC, property of the request body (list of strings).
- **name** (*string*) – Network Condition name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request.
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

## Return type *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*cli\_dnis\_list=None, condition\_type=None, description=None, device\_group\_list=None, device\_list=None, id=None, ip\_addr\_list=None, link=None, mac\_addr\_list=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_network\_access\_network\_condition*

```
get_network_access_network_condition_by_id(id, headers=None,
                                           **query_parameters)
```

Network Access Returns a network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_by_id(id, headers=None, **query_parameters)
```

Alias for *get\_network\_access\_network\_condition\_by\_id*

```
update_network_access_network_condition_by_id(id, cli_dnis_list=None, condition_type=None, description=None,
                                              device_group_list=None, device_list=None, ip_addr_list=None,
                                              link=None, mac_addr_list=None, name=None, headers=None,
                                              payload=None, active_validation=True,
                                              **query_parameters)
```

Network Access Update network condition.

#### Parameters

- **cli\_dnis\_list** (*list*) – This field should contain a Caller ID (CLI), comma, and Called ID (DNIS). Line format Caller ID (CLI), Called ID (DNIS), property of the request body (list of strings).
- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are 'DeviceCondition', 'DevicePortCondition' and 'EndstationCondition'.
- **description** (*string*) – description, property of the request body.
- **device\_group\_list** (*list*) – This field should contain a tuple with NDG Root, comma, and an NDG (that it under the root). Line format NDG Root Name, NDG, Port, property of the request body (list of strings).



- **device\_list** (*list*) – This field should contain Device Name. The device name must be the same as the name field in a Network Device object. Line format Device Name, property of the request body (list of strings).
- **id** (*basestring*) – id, property of the request body.
- **ip\_addr\_list** (*list*) – This field should contain IP address or subnet. IP address can be IPV4 format (n.n.n.n) or IPV6 format (n:n:n:n:n:n:n). IP subnet can be IPV4 format (n.n.n.n/m) or IPV6 format (n:n:n:n:n:n:n/m). Line format IP Address or subnet, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **mac\_addr\_list** (*list*) – This field should contain Endstation MAC address, comma, and Destination MAC addresses. Each Max address must include twelve hexadecimal digits using formats nn:nn:nn:nn:nn:nn or nn-nn-nn-nn-nn-nn or nnnn.nnnn.nnnn or nnnnnnnnnnnn. Line format Endstation MAC, Destination MAC, property of the request body (list of strings).
- **name** (*string*) – Network Condition name, property of the request body.
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request.
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, cli_dnis_list=None, condition_type=None, description=None, device_group_list=None, device_list=None, ip_addr_list=None, link=None, mac_addr_list=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_network_access_network_condition_by_id`

```
delete_network_access_network_condition_by_id(id, headers=None, **query_parameters)
```

Network Access Delete network condition.

## Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_network\_condition\_by\_id*

**network\_access\_policy\_set****class NetworkAccessPolicySet**

Identity Services Engine Network Access - Policy Set API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Policy Set API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_policy\_sets** (*headers=None*, *\*\*query\_parameters*)  
Get all network access policy sets.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_policy\_sets*

**create\_network\_access\_policy\_set** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Create a new policy set: Policy must include name , service identifier (either server sequence or allowed protocol) and a condition. Condition has hierarchical structure which define a set of condition for which policy could be match. Condition can be either reference to a stored Library condition, using model ConditionReference , or, dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

**Parameters**

- **condition** (*object*) – condition, property of the request body.
- **default** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **description** (*string*) – The description for the policy set, property of the request body.
- **hit\_counts** (*integer*) – The amount of times the policy was matched, property of the request body.
- **id** (*string*) – Identifier for the policy set, property of the request body.
- **is\_proxy** (*boolean*) – Flag which indicates if the policy set service is of type ‘Proxy Sequence’ or ‘Allowed Protocols’, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Given name for the policy set, [Valid characters are alphanumerics, underscore, hyphen, space, period, parentheses], property of the request body.
- **rank** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **service\_name** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **state** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are ‘disabled’, ‘enabled’ and ‘monitor’.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_access\_policy\_set*

**reset\_hit\_counts\_network\_access\_policy\_sets** (*headers=None, \*\*query\_parameters*)  
Network Access Reset HitCount for PolicySets.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_network\_access\_policy\_sets*

**get\_network\_access\_policy\_set\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Network Access Get policy set attributes.

**Parameters**

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_policy\_set\_by\_id*

**update\_network\_access\_policy\_set\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update a policy set.

### Parameters

- **condition** (*object*) – condition, property of the request body.
- **default** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **description** (*string*) – The description for the policy set, property of the request body.
- **hit\_counts** (*integer*) – The amount of times the policy was matched, property of the request body.
- **id** (*basestring*) – Identifier for the policy set, property of the request body.
- **is\_proxy** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Given name for the policy set, [Valid characters are alphanumerics, underscore, hyphen, space, period, parentheses], property of the request body.
- **rank** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.

- **service\_name** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **state** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are ‘disabled’, ‘enabled’ and ‘monitor’.
- **id** – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, condition=None, default=None, description=None, hit_counts=None,
             is_proxy=None, link=None, name=None, rank=None, service_name=None,
             state=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_network\_access\_policy\_set\_by\_id*

```
delete_network_access_policy_set_by_id(id, headers=None, **query_parameters)
```

Network Access Delete a policy set.

### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_policy_set_by_id`*

## network\_access\_profiles

**class NetworkAccessProfiles**

Identity Services Engine Network Access - Profiles API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Profiles API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_profiles`** (*headers=None*, *\*\*query\_parameters*)

Network Access Returns list of authorization profiles. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_access_profiles`*

## network\_access\_security\_groups

### class NetworkAccessSecurityGroups

Identity Services Engine Network Access - Security Groups API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Security Groups API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_security\_groups** (*headers=None, \*\*query\_parameters*)

Network Access Return list of available security groups for authorization policy definition. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_security\_groups*

## network\_access\_service\_names

### class NetworkAccessServiceNames

Identity Services Engine Network Access - Service Names API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Service Names API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_service\_names** (*headers=None, \*\*query\_parameters*)

Returns list of Allowed Protocols and Server Sequences for Network Access Policy Set results. 'isLocalAuthorization' property is available only for Network Access Policy Set results of type Server Sequence. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_service\_names*

**network\_access\_time\_date\_conditions****class NetworkAccessTimeDateConditions**

Identity Services Engine Network Access - Time/Date Conditions API (version: 3.1.1).

Wraps the Identity Services Engine Network Access - Time/Date Conditions API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_time_conditions`** (*headers=None, \*\*query\_parameters*)  
Network Access Returns a list of time and date conditions.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_time\_conditions*

**create\_network\_access\_time\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates time/date condition.

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.

- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, id=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *create\_network\_access\_time\_condition*

**get\_network\_access\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access returns a network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_time\_condition\_by\_id*

**update\_network\_access\_time\_condition\_by\_id** (*id*, *attribute\_name=None*,  
*attribute\_value=None*,  
*children=None*, *condition\_type=None*, *dates\_range=None*,  
*dates\_range\_exception=None*,  
*description=None*, *dictionary\_name=None*, *dictionary\_value=None*,  
*hours\_range=None*, *hours\_range\_exception=None*,  
*is\_negate=None*, *link=None*,  
*name=None*, *operator=None*, *week\_days=None*,  
*week\_days\_exception=None*,  
*headers=None*, *payload=None*,  
*active\_validation=True*,  
*\*\*query\_parameters*)

Network Access Update network condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.

- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘TimeAndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of

the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').

- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_time\_condition\_by\_id*

**delete\_network\_access\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete Time/Date condition.

### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_time_condition_by_id`*

## **network\_device**

### **class NetworkDevice**

Identity Services Engine NetworkDevice API (version: 3.1.1).

Wraps the Identity Services Engine NetworkDevice API and exposes the API as native Python methods that return native Python objects.

Network Device API allows the client to add, delete, update, and search network devices. Please note that each API description shows whether the API is supported in bulk operation. The bulk section is showing only 'create' bulk operation however, all other operation which are bulk supported can be used in same way.

### **Revision History**

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Ver-<br>sion | Description   | Revision Modifi-<br>cation                           | Revision Modification   |
|-------------------------|-------------------------------|------------------------------|---|--|---|
|                         |                               |                              |   | Attribute  | Description   |
| 0                       | 1.0                           | 1.2                          | Initial Cisco ISE Version   |  |   |
| 1                       | 1.1                           | 2.0                          | Cisco ISE 2.0 model changes for TACACS+ and 3rd-Party support                 | tacacsSet-<br>tings:sharedSecret                     | Added Attribute 'shared-Secret' for Tacacs+ sup-<br>port                      |
|                         |                               |                              |   | tacacsSet-<br>tings:connectModeOptions               | Added Attribute 'con-<br>nectModeOptions' for<br>Tacacs+ support              |
|                         |                               |                              |   | profileName  | Added Attribute 'profile-<br>Name' for 3rd-Party sup-<br>port support         |
|                         |                               |                              |   | coaPort  | Added Attribute 'coaPort'<br>for 3rd-Party support sup-<br>port               |
| 2                       | 1.2                           | 2.4                          | Cisco ISE 2.4 model changes for Multi shared secret and DTLS Required support | authenticationset-<br>tings:enableMultiSecret        | Added Attribute 'enable-<br>MultiSecret' for multiple<br>shared secret        |
|                         |                               |                              |   | authenticationset-<br>tings:secondRadiusSharedSecret | Added Attribute 'secon-<br>dRadiusSharedSecret' for<br>multiple shared secret |
|                         |                               |                              |   | authenticationset-<br>tings:dtlsRequired             | Added Attribute 'dtlsRe-<br>quired' for dtls settings                         |

### Resource Definition

| Attribute              | Type    | Required | Description                                 | Default Values | Example Val-<br>ues                              |
|------------------------|---------|----------|---|----------------|--|
| name                   | String  | Yes      | Resource<br>Name                            |                | ISE_EST_Local_Host                               |
| id                     | String  | No       | Resource<br>UUID, manda-<br>tory for update |                | 79aac430-<br>7cc8-<br>11eb-ad58-<br>005056926583 |
| description            | String  | No       |   |                | example nd                                       |
| authenticationSettings | Boolean | Yes      |   |                | false  |
| • enableKeyWrap        | Boolean | Yes      |   | false          |  |
| • enabled              | Boolean | Yes      |   | false          |  |

Continued on next page



Table 24 – continued from previous page

|                               |         |     |  |        |                      |
|-------------------------------|---------|-----|--|--------|----------------------|
| • keyEncryptionKey            | String  | Yes |  |        | 1234567890123456     |
| • keyInputFormat              | Enum    | Yes | Allowed values: ASCII, HEXADECI-MAL  | ASCII  |                      |
| • messageAuthenticatorCodeKey | String  | No  |  |        | 12345678901234567890 |
| • networkProtocol             | Enum    | No  | Allowed values: RADIUS, TACACS_PLUS  | RADIUS |                      |
| • radiusSharedSecret          | String  | No  |  |        | VHEGKOCUHYB          |
| • enableMultiSecret           | Boolean | No  |  |        | false                |
| • secondRadiusSharedSecret    | String  | No  |  |        |                      |
| • dtlsRequired                | Boolean | No  | This value enforces use of dtls  | false  |                      |
| coaPort                       | Integer | Yes | Since 2.0 (for 3rd party)  |        | 0                    |
| dtlsDnsName                   | String  | No  | This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate |        | ISE213.il.com        |
| NetworkDeviceIPList           | String  | Yes | List of IP Subnets for this node   |        |                      |
| • ipaddress                   | String  | Yes | It can be either single IP address or IP range address   |        | 127.0.0.1            |

Continued on next page

Table 24 – continued from previous page

|                                 |         |     |   |      |  |
|---------------------------------|---------|-----|---|------|--|
| •<br>getIpAddressExclude        | String  | Yes | It can be either single IP address or IP range address      |      |  |
| • mask                          | Integer | Yes |   |      | 32   |
| NetworkDeviceGroupList          | List    | No  | List of Network Device Group names for this node            |      | [ “Location#All Locations”, “Device Type#All Device Types” ] |
| modelName                       | String  | No  |   |      |  |
| softwareVersion                 | String  | No  |   |      |  |
| profileName                     | String  | Yes | Since 2.0 (for 3rd party)                                   | true | Cisco  |
| snmpsettings                    | List    | Yes |   |      |  |
| • linkTrapQuery                 | Boolean | Yes | SNMP link Trap Query  | true |  |
| • macTrapQuery                  | Boolean | Yes | SNMP MAC Trap Query   | true |  |
| • originatingPolicyServicesNode | String  | Yes | Originating Policy Services Node                            | Auto |  |
| • pollingInterval               | Integer | Yes | SNMP Polling Interval in seconds (Valid Range 600 to 86400) | 3600 |  |
| • roCommunity                   | String  | No  | SNMP RO Community   |      | aaa  |
| • version                       | Enum    | No  | Allowed values: ONE, TWO_C, THREE                           |      | ONE  |
| tacacsSettings                  | List    | Yes | Since 2.0 (for Tacacs+)                                     |      |  |
| • connectModeOptions            | Enum    | No  | Allowed values: OFF, ON_LEGACY, ON_DRAFT_COMPLIANT          |      | ON_LEGACY  |

Continued on next page

Table 24 – continued from previous page

|   |         |     |           |       |                 |
|---|---------|-----|-----------|-------|-----------------|
| •<br>sharedSecret                                 | String  | Yes | Since 2.0 |       | aaa             |
| trustsecsettings                                  | List    | Yes |           |       |                 |
| •<br>deviceAuthenticationSettings                 | List    | Yes |           |       |                 |
| •<br>sgaDeviceId                                  | String  | No  |           |       | networkDeviceId |
| •<br>sgaDevicePassword                            | String  | No  |           |       | aaa             |
| •<br>deviceConfigurationDeployment                | List    | Yes |           |       |                 |
| •<br>enableModePassword                           | String  | No  |           |       | aaa             |
| •<br>execModePassword                             | String  | No  |           |       | aaa             |
| •<br>execModeUsername                             | String  | No  |           |       | aaa             |
| •<br>includeWhenDeployingSGTUpdates               | Boolean | No  |           | false |                 |
| •<br>sgaNotificationAndUpdates                    | List    | Yes |           |       |                 |
| •<br>downloadEnvironmentDataEveryXSeconds         | Integer | No  |           | 86400 |                 |
| •<br>downloadPeerAuthorizationPolicyEveryXSeconds | Integer | No  |           | 86400 |                 |

Continued on next page

Table 24 – continued from previous page

|                                    |         |    |  |                  |  |
|------------------------------------|---------|----|--|------------------|--|
| • downloadSGACLListsEveryXSeconds  | Integer | No |  | 86400            |  |
| • otherSGADevicesToTrustThisDevice | Boolean | No |  | false            |  |
| • reAuthenticationEveryXSeconds    | Integer | No |  | 86400            |  |
| • sendConfigurationToDevice        | Boolean | No |  | false            |  |
| • sendConfigurationToDeviceUsing   | Enum    | No | Allowed values: EN-ABLE_USING_COA, EN-ABLE_USING_CLI, DIS-ABLE_ALL | ENABLE_USING_COA |  |

**get\_network\_device\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_device\_by\_name*

```

update_network_device_by_name(name, authentication_settings=None, coa_port=None,
                                description=None, dtls_dns_name=None, id=None,
                                model_name=None, network_device_group_list=None,
                                network_device_ip_list=None, profile_name=None,
                                snmpsettings=None, software_version=None,
                                tacacs_settings=None, trustsecsettings=None, head-
                                ers=None, payload=None, active_validation=True,
                                **query_parameters)

```

This API allows the client to update a network device by name.

#### Parameters

- **network\_device\_group\_list** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **network\_device\_ip\_list** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **authentication\_settings** (*object*) – authenticationSettings, property of the request body.
- **coa\_port** (*integer*) – coaPort, property of the request body.
- **description** (*string*) – description, property of the request body.
- **dtls\_dns\_name** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **id** (*string*) – id, property of the request body.
- **model\_name** (*string*) – modelName, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **snmpsettings** (*object*) – snmpsettings, property of the request body.
- **software\_version** (*string*) – softwareVersion, property of the request body.
- **tacacs\_settings** (*object*) – tacacsSettings, property of the request body.
- **trustsecsettings** (*object*) – trustsecsettings, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *authentication\_settings=None*, *coa\_port=None*, *description=None*, *dtls\_dns\_name=None*, *id=None*, *model\_name=None*, *network\_device\_group\_list=None*, *network\_device\_ip\_list=None*, *profile\_name=None*, *snmpsettings=None*, *software\_version=None*, *tacacs\_settings=None*, *trustsecsettings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_device\_by\_name*

**delete\_network\_device\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a network device by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_by\_name*

**get\_network\_device\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_device\_by\_id*

**`update_network_device_by_id`** (*id*, *authentication\_settings=None*, *coa\_port=None*, *description=None*, *dtls\_dns\_name=None*, *model\_name=None*, *name=None*, *network\_device\_group\_list=None*, *network\_device\_ip\_list=None*, *profile\_name=None*, *snmpsettings=None*, *software\_version=None*, *tacacs\_settings=None*, *trustsecsettings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a network device by ID.

## Parameters

- **`network_device_group_list`** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **`network_device_ip_list`** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **`authentication_settings`** (*object*) – `authenticationSettings`, property of the request body.
- **`coa_port`** (*integer*) – `coaPort`, property of the request body.
- **`description`** (*string*) – `description`, property of the request body.
- **`dtls_dns_name`** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **`id`** (*basestring*) – `id`, property of the request body.
- **`model_name`** (*string*) – `modelName`, property of the request body.
- **`name`** (*string*) – `name`, property of the request body.
- **`profile_name`** (*string*) – `profileName`, property of the request body.
- **`snmpsettings`** (*object*) – `snmpsettings`, property of the request body.
- **`software_version`** (*string*) – `softwareVersion`, property of the request body.
- **`tacacs_settings`** (*object*) – `tacacsSettings`, property of the request body.
- **`trustsecsettings`** (*object*) – `trustsecsettings`, property of the request body.

- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, authentication_settings=None, coa_port=None, description=None,
             dtls_dns_name=None, model_name=None, name=None, network_device_group_list=None,
             network_device_ip_list=None, profile_name=None, snmpsettings=None,
             software_version=None, tacacs_settings=None, trustsecsettings=None,
             headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_network\_device\_by\_id*

```
delete_network_device_by_id(id, headers=None, **query_parameters)
```

This API deletes a network device by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*



**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_by\_id*

**get\_network\_device** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the network devices. Filter: [ipaddress, name, description, location, type] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for **get\_network\_device**

**get\_network\_device\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the network devices. Filter: [ipaddress, name, description, location, type] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_network\_device\_generator*

**create\_network\_device** (*authentication\_settings=None, coa\_port=None, description=None, dtls\_dns\_name=None, model\_name=None, name=None, network\_device\_group\_list=None, network\_device\_ip\_list=None, profile\_name=None, snmpsettings=None, software\_version=None, tacacs\_settings=None, trustsecsettings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a network device.

#### Parameters

- **network\_device\_group\_list** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **network\_device\_ip\_list** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **authentication\_settings** (*object*) – authenticationSettings, property of the request body.
- **coa\_port** (*integer*) – coaPort, property of the request body.
- **description** (*string*) – description, property of the request body.
- **dtls\_dns\_name** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **model\_name** (*string*) – modelName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **snmpsettings** (*object*) – snmpsettings, property of the request body.
- **software\_version** (*string*) – softwareVersion, property of the request body.
- **tacacs\_settings** (*object*) – tacacsSettings, property of the request body.
- **trustsecsettings** (*object*) – trustsecsettings, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*authentication\_settings=None, coa\_port=None, description=None, dtls\_dns\_name=None, model\_name=None, name=None, network\_device\_group\_list=None, network\_device\_ip\_list=None, profile\_name=None, snmpsettings=None, software\_version=None, tacacs\_settings=None, trustsecsettings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_device*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the network device.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_network\_device** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_network\_device*

**monitor\_bulk\_status\_network\_device** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid**(*basestring*) – bulkid path parameter.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_network\_device*

## network\_device\_group

### class NetworkDeviceGroup

Identity Services Engine NetworkDeviceGroup API (version: 3.1.1).

Wraps the Identity Services Engine NetworkDeviceGroup API and exposes the API as native Python methods that return native Python objects.

Network Device Group API allows the client to search network device groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 1.3               | Initial Cisco ISE Version |
| 1          | 1.1              | 2.4               | Added GetByName operation |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Example Values                       |
|-------------|--------|----------|-------------------------------------|--------------------------------------|
| name        | String | Yes      | Resource Name                       | Device Type#All Device Types         |
| id          | String | No       | Resource UUID, mandatory for update | 70c79c30-8bff-11e6-996c-525400b48521 |
| description | String | No       |                                     | All Device Types                     |
| other-name  | String | No       |                                     | Device Type                          |

**get\_network\_device\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device group by name.

#### Parameters

- **name** (*basestring*) – name path parameter. colon is used as a separator instead of (#) in the NDG name. For example, if the name is a#b#c it should appear in the request URL as a:b:c.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_device_group_by_name`*

**`get_network_device_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_device_group_by_id`*

**`update_network_device_group_by_id`** (*id*, *description=None*, *name=None*, *other-name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a network device group.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.

- **name** (*string*) – name, property of the request body.
- **othername** (*string*) – othername, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *othername=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_network\_device\_group\_by\_id*

**delete\_network\_device\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a network device group.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises



- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_group\_by\_id*

**get\_network\_device\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the network device groups. Filter: [name, description, type] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_device\_group*

**get\_network\_device\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the network device groups. Filter: [name, description, type] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_network\_device\_group\_generator*

**create\_network\_device\_group** (*description=None, name=None, othername=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a network device group.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **othername** (*string*) – othername, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, othername=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_network\_device\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the network device group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## node\_deployment

**class NodeDeployment**

Identity Services Engine Node Deployment API (version: 3.1.1).

Wraps the Identity Services Engine Node Deployment API and exposes the API as native Python methods that return native Python objects.

**get\_nodes** (*filter=None, filter\_type=None, headers=None, \*\*query\_parameters*)

The API lists all the nodes that are deployed in the cluster. Returns basic information about each of the deployed nodes in the cluster like hostname, status, roles, and services. Supports filtering on FQDN, hostname, IP address, roles, services and node status. .

**Parameters**

- **filter** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering is available through the filter query string parameter. The structure of a filter is a triplet of field operator and value, separated by dots. More than one filter can be sent. The logical operator common to all filter criteria is AND by default, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to all filter criteria is AND by default, and can be changed by using this parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**register\_node** (*allow\_cert\_import=None, fqdn=None, password=None, roles=None, services=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API registers a Cisco ISE node to form a multi-node deployment. Approximate execution time 300 seconds. .

**Parameters**

- **`allow_cert_import`** (*boolean*) – Consent to import the self- signed certificate of the registering node. , property of the request body.
- **`fqdn`** (*string*) – fqdn, property of the request body.
- **`password`** (*string*) – password, property of the request body.
- **`roles`** (*list*) – Roles can be empty or have many values for a node. , property of the request body (list of strings. Available values are 'PrimaryAdmin', 'PrimaryDedicatedMonitoring', 'PrimaryMonitoring', 'SecondaryAdmin', 'SecondaryDedicatedMonitoring', 'SecondaryMonitoring' and 'Standalone').
- **`services`** (*list*) – Services can be empty or have many values for a node. , property of the request body (list of strings. Available values are 'DeviceAdmin', 'PassiveIdentity', 'Profiler', 'SXP', 'Session', 'TC-NAC', 'pxGrid' and 'pxGridCloud').
- **`user_name`** (*string*) – userName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_node\_details** (*hostname*, *headers=None*, *\*\*query\_parameters*)

This API retrieves detailed information of the deployed node. .

#### Parameters

- **hostname** (*basestring*) – hostname path parameter. Hostname of the deployed node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*hostname*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_details*

**update\_node** (*hostname*, *roles=None*, *services=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API updates the configuration of the Cisco ISE node with the configuration provided. Approximate execution time 300 seconds. .

#### Parameters

- **roles** (*list*) – Roles can be empty or have many values for a node. , property of the request body (list of strings. Available values are 'PrimaryAdmin', 'PrimaryDedicatedMonitoring', 'PrimaryMonitoring', 'SecondaryAdmin', 'SecondaryDedicatedMonitoring', 'SecondaryMonitoring' and 'Standalone').
- **services** (*list*) – Services can be empty or have many values for a node. , property of the request body (list of strings. Available values are 'DeviceAdmin', 'PassiveIdentity', 'Profiler', 'SXP', 'Session', 'TC-NAC', 'pxGrid' and 'pxGridCloud').
- **hostname** (*basestring*) – hostname path parameter. Hostname of the deployed node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_node`** (*hostname*, *headers=None*, *\*\*query\_parameters*)

The deregistered node becomes a standalone Cisco ISE node. It retains the last configuration that it received from the primary PAN and assumes the default roles and services of a standalone node. Approximate execution time 300 seconds. .

**Parameters**

- **`hostname`** (*basestring*) – hostname path parameter. The hostname of the node in the deployment to be deregistered.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`make_primary`** (*headers=None*, *\*\*query\_parameters*)

This API promotes the standalone node on which the API is invoked to the primary Policy Administration node (PAN). .

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**promote\_node** (*headers=None, \*\*query\_parameters*)

Execute this API in the secondary PAN in the cluster to promote the node to primary PAN. Ensure that the API Gateway setting is enabled in the secondary PAN. Approximate execution time 300 seconds. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**make\_standalone** (*headers=None, \*\*query\_parameters*)

This API changes the primary PAN in a single node cluster on which the API is invoked, to a standalone node. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**sync\_node** (*hostname*, *headers=None*, *\*\*query\_parameters*)

Performing a manual synchronization involves a reload of the target node, but not the primary PAN. Approximate execution time 300 seconds.

**Parameters**

- **hostname** (*basestring*) – hostname path parameter. Hostname of the node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## node\_group

### class NodeGroup

Identity Services Engine Node Group API (version: 3.1.1).

Wraps the Identity Services Engine Node Group API and exposes the API as native Python methods that return native Python objects.

**get\_node\_groups** (*headers=None, \*\*query\_parameters*)

This API retrieves the details of all the node groups in the cluster. Each node group retrieved consists of name, description and MAR cache details like query-attempts, query-timeout, replication-attempts, replication- timeout. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create\_node\_group** (*description=None, mar\_cache=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a node group in the cluster. A node group is a group of PSNs, where the PSNs maintain a heartbeat with each other. It is used primarily to terminate or transfer posture-pending sessions when a PSN in a local node group fails. Node group members can communicate over TCP/7800. The following parameters are used in the request body of the API: **PARAMETER DESCRIPTION EXAMPLE** **name** \* required Name of the node group( valid-range: 1-100 characters) {"name": "site1"} **description** Description of the node group ( valid-range: 0-256 characters) {"name": "site2", "description": "sample"} **query-attempts** The number of times Cisco ISE attempts to perform the cache entry query. ( valid-range: 0 5, default-value: 1) {"name": "site3", "marCache": {"query-attempts": 1}} **query-timeout** The time, in seconds, after which a cache entry query times out. ( valid-range: 1 10, default-value: 2) second(s) {"name": "site4", "marCache": {"query-timeout": 2}} **replication-attempts** The number of times Cisco ISE attempts to perform MAR cache entry replication. ( valid-range: 0 5, default-value: 2) {"name": "site5", "marCache": {"replication-attempts": 2}} **replication-timeout** The time, in seconds, after which the cache entry replication times out. ( valid-range: 1 10, default-value: 5) second(s) {"name": "site6", "marCache": {"replication-timeout": 5}} **NOTE 1:** : Node group name and description cannot contain any of the following characters: ! % ^ : ; , . ~ @ # & [ { ( | ) } ] ` > < / " + = ? **NOTE 2:** : Parameter marCache stands for Machine Access Restriction (MAR) cache that provides an additional means of controlling authorization for Active Directory- authentication users. We can enable the marCache for a

nodegroup by providing key “marCache” in json request. Additionally we may also provide any combination of parameters query-attempts, query-timeout, replication-attempts, replication-timeout in marCache object. If no value is specified for a particular parameter its default value will be recorded. If no marCache object is given, marCache will be considered as disabled. .

#### Parameters

- **description** (*string*) – description, property of the request body.
- **mar\_cache** (*object*) – marCache, property of the request body.
- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_node\_group** (*node\_group\_name*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the details of a node group in the cluster using a node group name.

#### Parameters

- **node\_group\_name** (*basestring*) – nodeGroupName path parameter. Name of the existing node group.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- ***TypeError*** – If the parameter types are incorrect.
- ***MalformedRequest*** – If the request body created is invalid.
- ***ApiError*** – If the Identity Services Engine cloud returns an error.

**update\_node\_group** (*node\_group\_name*, *description=None*, *mar\_cache=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Purpose of this API is to update an existing node group. The following parameters are used in the request body of the API: **PARAMETER DESCRIPTION EXAMPLE** **name** \* required Name of the node group existing in ISE( valid-range: 1-100 characters) **NOTE** : name of an existing node group cannot be modified. **"name"** parameter should be identical to the node group name(`nodeGroupName`) provided in the path {**"name"**: "site1"} **description** Description of the node group ( valid-range: 0-256 characters) {**"name"**: "site2", **"description"**: "sample"} **query-attempts** The number of times Cisco ISE attempts to perform the cache entry query. ( valid-range: 0 5, default-value: 1) {**"name"**: "site3",**"marCache"**: {**"query-attempts"**: 1}} **query-timeout** The time, in seconds, after which a cache entry query times out. ( valid-range: 1 10, default-value: 2) second(s) {**"name"**: "site4",**"marCache"**: {**"query-timeout"**: 2}} **replication-attempts** The number of times Cisco ISE attempts to perform MAR cache entry replication. ( valid-range: 0 5, default-value: 2) {**"name"**: "site5",**"marCache"**: {**"replication-attempts"**: 2}} **replication-timeout** The time, in seconds, after which the cache entry replication times out. ( valid-range: 1 10, default-value: 5) second(s) {**"name"**: "site6",**"marCache"**: {**"replication-timeout"**: 5}} **NOTE 1**: Node group name and description cannot contain any of the following characters: ! % ^ : ; , . ~ @ # & [ { ( | ) } ] ` > < / " + = ? **NOTE 2**: Parameter `marCache` stands for Machine Access Restriction (MAR) cache that provides an additional means of controlling authorization for Active Directory-authentication users. We can enable the `marCache` for a nodegroup by providing key `"marCache"` in json request. Additionally we may also provide any combination of parameters `query-attempts`, `query-timeout`, `replication-attempts`, `replication-timeout` in `marCache` object. If no value is specified for a particular parameter its default value will be recorded. If no `marCache` object is given, `marCache` will be disabled. .

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`mar_cache`** (*object*) – `marCache`, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`node_group_name`** (*basestring*) – `nodeGroupName` path parameter. Name of the existing node group.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_node_group`** (*force\_delete, node\_group\_name, headers=None, \*\*query\_parameters*)

Delete an existing node group in the cluster. Deleting the node group does not delete the nodes, but failover is no longer carried out among the nodes.

**Parameters**

- **`node_group_name`** (*basestring*) – `nodeGroupName` path parameter. Name of the existing node group.
- **`force_delete`** (*bool*) – `forceDelete` query parameter. Force delete the group even if the node group contains one or more nodes.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`add_node`** (*node\_group\_name, hostname=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API adds a node to the node group in the cluster. When a node that belongs to a node group fails, another node in the same node group issues a Change of Authorization (CoA) for all the URL-redirceted sessions on the failed node. The following parameters are used in the request body of the API: PARAMETER DESCRIPTION EXAMPLE `hostname` \* required Name of the host name {"hostname": "isnode"}

**Parameters**

- **`hostname`** (*string*) – `hostname`, property of the request body.
- **`node_group_name`** (*basestring*) – `nodeGroupName` path parameter. Name of the existing node group.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_nodes** (*node\_group\_name*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the list of nodes associated with a node group in the cluster with a given node group name.

#### Parameters

- **node\_group\_name** (*basestring*) – nodeGroupName path parameter. Name of the existing node group.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**remove\_node** (*node\_group\_name*, *hostname=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Purpose of this API is to remove a node from a node group in the cluster. Removing node from the node group does not delete the node, but failover is no longer carried out if the node is not part any node group. The following parameters are used in the request body of the API: **PARAMETER DESCRIPTION**  
**EXAMPLE** hostname \* required Name of the host name {"hostname": "isencode"} .

#### Parameters

- **hostname** (*string*) – hostname, property of the request body.
- **node\_group\_name** (*basestring*) – nodeGroupName path parameter. Name of the existing node group.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## node\_services

### class NodeServices

Identity Services Engine Node Services API (version: 3.1.1).

Wraps the Identity Services Engine Node Services API and exposes the API as native Python methods that return native Python objects.

**get\_interfaces** (*hostname*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the list of interfaces on a node in a cluster. .

#### Parameters

- **hostname** (*basestring*) – hostname path parameter. Hostname of the node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sxp_interface`** (*hostname*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the SXP interface. .

**Parameters**

- **`hostname`** (*basestring*) – hostname path parameter. Hostname of the node.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`set_sxp_interface`** (*hostname*, *interface=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API configures the SXP interface. .

**Parameters**

- **`interface`** (*string*) – interface, property of the request body.
- **`hostname`** (*basestring*) – hostname path parameter. Hostname of the node.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_profiler\_probe\_config**(*hostname*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the profiler probe configuration of a PSN. .

#### Parameters

- **hostname**(*basestring*) – hostname path parameter. Hostname of the node.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
set_profiler_probe_config (hostname, active_directory=None, dhcp=None, dhcp_span=None,
                             dns=None, http=None, netflow=None, nmap=None, px-
                             grid=None, radius=None, snmp_query=None, snmp_trap=None,
                             headers=None, payload=None, active_validation=True,
                             **query_parameters)
```

This API updates the profiler probe configuration of a PSN. Set probe value as null to disable probe. Ex: Below payload will disable NMAP, PxGrid and SNMPTRAP probes { "activeDirectory": { "daysBeforeRescan": 1 }, "dhcp": { "interfaces": "[{"interface": "GigabitEthernet 0"}]", "port": 0 }, "dhcpSpan": { "interfaces": "[{"interface": "GigabitEthernet 0"}]" }, "dns": { "timeout": 2 }, "http": { "interfaces": "[{"interface": "GigabitEthernet 0"}]" }, "netflow": { "interfaces": "[{"interface": "GigabitEthernet 0"}]", "port": 0 }, "nmap": null, "pxgrid": null, "radius": [], "snmpQuery": { "eventTimeout": 30, "retries": 2, "timeout": 1000 }, "snmpTrap": null } .

### Parameters

- **active\_directory** (*object*) – The Active Directory probe queries the Active Directory for Windows information., property of the request body.
- **dhcp** (*object*) – The DHCP probe listens for DHCP packets from IP helpers., property of the request body.
- **dhcp\_span** (*object*) – The DHCP SPAN probe collects DHCP packets., property of the request body.
- **dns** (*object*) – The DNS probe performs a DNS lookup for the FQDN., property of the request body.
- **http** (*object*) – The HTTP probe receives and parses HTTP packets., property of the request body.
- **netflow** (*object*) – The NetFlow probe collects the NetFlow packets that are sent to it from routers., property of the request body.
- **nmap** (*list*) – The NMAP probe scans endpoints for open ports and OS., property of the request body (list of objects).
- **pxgrid** (*list*) – The pxGrid probe fetches attributes of MAC address or IP address as a subscriber from the pxGrid queue., property of the request body (list of objects).
- **radius** (*list*) – The RADIUS probe collects RADIUS session attributes as well as CDP, LLDP, DHCP, HTTP, and MDM attributes from IOS Sensors., property of the request body (list of objects).
- **snmp\_query** (*object*) – The SNMP query probe collects details from network devices such as interface, CDP, LLDP, and ARP., property of the request body.
- **snmp\_trap** (*object*) – The SNMP trap probe receives linkup, linkdown, and MAC notification traps from network devices., property of the request body.
- **hostname** (*basestring*) – hostname path parameter. Hostname of the node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## node\_details

### class NodeDetails

Identity Services Engine NodeDetails API (version: 3.1.1).

Wraps the Identity Services Engine NodeDetails API and exposes the API as native Python methods that return native Python objects.

Node Details API allows the client to get deployment node details, get all nodes and filter nodes based on `NodeServiceTypes`.

#### Revision History

| Re-vi-sion # | Re-source Ver-sion | Cisco ISE Version | Description                                       | Revision Modifi-cation | Revision Modification  |
|--------------|--------------------|-------------------|---|------------------------|--|
|              |                    |                   |   | Attribute              | Description  |
| 0            | 1.0                | 2.2               | Initial Cisco ISE Version                         |                        |  |
| 1            | 1.1                | 2.4               | Support Node Service Types as part of Node Object | NodeServiceTypes       | Added String Field <code>NodeServiceTypes</code> . String represents services configured on the Node |
| 2            | 1.2                | 2.7               | Support Node FQDN as part of Node Object          | fqdn                   | Added String Field <code>FQDN</code> . String represents FQDN of the Node                            |
| 3            | 1.3                | 3.0               | Support SXP IP Address as part of Node Details    | sxpIpAddress           | Added String Field <code>sxpIpAddress</code> . String represents SXP IP Address of the Node          |

#### Resource Definition

| Attribute         | Type    | Re-<br>quired | Description                         | Example Values                       |
|-------------------|---------|---------------|-------------------------------------|--------------------------------------|
| name              | String  | Yes           | Resource Name                       | TestNode                             |
| id                | String  | No            | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description       | String  | No            |                                     |                                      |
| gateWay           | String  | No            |                                     | 10.0.10.11                           |
| displayName       | String  | No            |                                     | TestNode                             |
| inDeployment      | Boolean | No            |                                     | false                                |
| ipAddresses       | String  | No            |                                     | [ "10.0.0.1", "10.0.0.2" ]           |
| otherPapFqdn      | String  | No            |                                     | OtherTestNode                        |
| ipAddress         | String  | No            |                                     | 10.0.0.3                             |
| sxpIpAddress      | String  | No            |                                     | 10.10.10.1                           |
| nodeService-Types | String  | No            |                                     | DEVICE ADMIN                         |
| fqdn              | String  | No            |                                     | test.ers.cisco.com                   |
| primaryPapNode    | Boolean | No            |                                     | true                                 |
| papNode           | Boolean | No            |                                     | true                                 |
| pxGridNode        | Boolean | No            |                                     | true                                 |

**get\_node\_detail\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get node details by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_detail\_by\_name*

**get\_node\_detail\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get node details by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_detail\_by\_id*

**get\_node\_details** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the node details. Filter: [nodeservice-types] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_node\_details*

**get\_node\_details\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the node details. Filter: [nodeservice-types] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for `get_node_details_generator`

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the node details.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** `RestResponse`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

## pan\_ha

### class PanHa

Identity Services Engine PAN HA API (version: 3.1.1).

Wraps the Identity Services Engine PAN HA API and exposes the API as native Python methods that return native Python objects.

**get\_pan\_ha\_status** (*headers=None, \*\*query\_parameters*)

In a high availability configuration, the primary PAN is in active state. The secondary PAN (backup PAN) is in standby state, which means that it receives all the configuration updates from the primary PAN, but is not active in the Cisco ISE cluster. You can configure Cisco ISE to automatically promote the secondary PAN when the primary PAN becomes unavailable.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_pan\_ha** (*failed\_attempts=None, is\_enabled=None, polling\_interval=None, primary\_health\_check\_node=None, secondary\_health\_check\_node=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

To deploy the auto-failover feature, you must have at least three nodes, where two of the nodes assume the Administration persona, and one node acts as the health check node. A health check node is a non-administration node and can be a Policy Service, Monitoring, or pxGrid node, or any combination of these. If the PANs are in different data centers, you must have a health check node for each PAN. All the fields are mandatory to enable PanHA. Values of failedAttempts, pollingInterval, primaryHealthCheckNode, and secondaryHealthCheckNode are not considered when the isEnabled value is “false” in the request body.

#### Parameters

- **failed\_attempts** (*integer*) – Failover occurs if the primary PAN is down for the specified number of failure polls. Count (2 60). The default value is 5. , property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **polling\_interval** (*integer*) – Administration nodes are checked after each interval. Seconds (30 300) The default value is 120. , property of the request body.



- **primary\_health\_check\_node** (*object*) – primaryHealthCheckNode, property of the request body.
- **secondary\_health\_check\_node** (*object*) – secondaryHealthCheckNode, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## patching

### class Patching

Identity Services Engine Patching API (version: 3.1.1).

Wraps the Identity Services Engine Patching API and exposes the API as native Python methods that return native Python objects.

**list\_installed\_hotpatches** (*headers=None, \*\*query\_parameters*)

List all the installed hot patches in the system. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`install_hotpatch`** (*hotpatch\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers hot patch installation on the Cisco ISE node. A task ID is returned which can be used to monitor the progress of the hot patch installation process. As hot patch installation triggers the Cisco ISE to restart, the task API becomes unavailable for a certain period of time. .

**Parameters**

- **`hotpatch_name`** (*string*) – hotpatchName, property of the request body.
- **`repository_name`** (*string*) – repositoryName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`rollback_hotpatch`** (*hotpatch\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers hot patch rollback on the Cisco ISE node. A task ID is returned which can be used to monitor the progress of the hot patch rollback process. As hot patch rollback triggers the Cisco ISE to restart, the task API becomes unavailable for a certain period of time. .

**Parameters**

- **`hotpatch_name`** (*string*) – hotpatchName, property of the request body.
- **`repository_name`** (*string*) – repositoryName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**list\_installed\_patches** (*headers=None, \*\*query\_parameters*)

List all the installed patches in the system, with the patch number for rollback. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**install\_patch** (*patch\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers patch installation on the Cisco ISE node. A task ID is returned which can be used to monitor the progress of the patch installation process. As the patch installation triggers the Cisco ISE to restart, the task API becomes unavailable for a certain period of time. .

### Parameters

- **patch\_name** (*string*) – patchName, property of the request body.
- **repository\_name** (*string*) – repositoryName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**rollback\_patch** (*patch\_number=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers patch rollback on the Cisco ISE node. A task ID is returned which can be used to monitor the progress of the patch rollback process. As the patch rollback triggers the Cisco ISE to restart, the task API becomes unavailable for a certain period of time. .

### Parameters

- **patch\_number** (*integer*) – patchNumber, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## portal\_global\_setting

### class PortalGlobalSetting

Identity Services Engine PortalGlobalSetting API (version: 3.1.1).

Wraps the Identity Services Engine PortalGlobalSetting API and exposes the API as native Python methods that return native Python objects.

The Portal Global Setting API allows the user to customize the text that is displayed in the Cisco ISE portals. This global setting controls whether HTML alone or both HTML and Javascript are permitted to be used in customized text.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute      | Type   | Re-quired | Description                              | Example Values                       |
|----------------|--------|-----------|--|--------------------------------------|
| id             | String | Yes       | Resource UUID value                      | 21013cb2-d030-4fb1-9ba2-35757634d770 |
| cus-tomization | Enum   | Yes       | Allowed values: HTML, HTMLAND-JAVASCRIPT | HTML                                 |

**get\_portal\_global\_setting\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get the portal global settings by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_portal\_global\_setting\_by\_id*

**`update_portal_global_setting_by_id`** (*id*, *customization=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update the portal global settings by id.

**Parameters**

- **`customization`** (*string*) – Allowed values: HTML, HTMLANDJAVASCRIPT, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.
- **`id`** – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customization=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                   *\*\*query\_parameters*)  
 Alias for *update\_portal\_global\_setting\_by\_id*

**get\_portal\_global\_settings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
                                   *sortasc=None*, *sortdsc=None*, *headers=None*,  
                                   *\*\*query\_parameters*)

This API allows the client to get all the portal global settings. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for [get\\_portal\\_global\\_settings](#)

**get\_portal\_global\_settings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portal global settings. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.



- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portal\_global\_settings\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the portal global setting .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## portal\_theme

### class PortalTheme

Identity Services Engine PortalTheme API (version: 3.1.1).

Wraps the Identity Services Engine PortalTheme API and exposes the API as native Python methods that return native Python objects.

Portal Theme API allows the client to add, delete, update and search Portal Theme among other operations which are available from all the portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

## Resource Definition

| At-tribute   | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       | Default Blue theme                   |
| id           | String | No        | Resource UUID, mandatory for update | 9eb421c0-8c01-11e6-996c-525400b48521 |
| descrip-tion | String | No        |                                     |                                      |
| theme-Data   | String | Yes       | Portal Theme for all portals        | Base 64 encoded string of CSS file   |

`get_portal_theme_by_id(id, headers=None, **query_parameters)`

This API allows the client to get a portal theme by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_portal_theme_by_id`

`update_portal_theme_by_id(id, description=None, name=None, theme_data=None, headers=None, payload=None, active_validation=True, **query_parameters)`

This API allows the client to update a portal theme by ID.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **theme\_data** (*string*) – Portal Theme for all portals, property of the request body.

- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *theme\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_portal\_theme\_by\_id*

**delete\_portal\_theme\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes a portal theme by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_portal\_theme\_by\_id*

**get\_portal\_themes** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the portal themes. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for `get_portal_themes`

**get\_portal\_themes\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portal themes. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_portal\\_themes\\_generator\*](#)

**create\_portal\_theme** (*description=None, name=None, theme\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a portal theme.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **theme\_data** (*string*) – Portal Theme for all portals, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [\*RestResponse\*](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, theme\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [\*create\\_portal\\_theme\*](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the portal theme.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## profiler

### **class Profiler**

Identity Services Engine Profiler API (version: 3.1.1).

Wraps the Identity Services Engine Profiler API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_profiles** (*headers=None*, *\*\*query\_parameters*)  
getProfiles.

#### **Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### **Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## profiler\_profile

### class ProfilerProfile

Identity Services Engine ProfilerProfile API (version: 3.1.1).

Wraps the Identity Services Engine ProfilerProfile API and exposes the API as native Python methods that return native Python objects.

Profiler Profile API allows the client to search profiles.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Re-quired | Description                         | Example Values                       |
|-------------|--------|-----------|-------------------------------------|--------------------------------------|
| name        | String | Yes       | Resource Name                       | 2Wire-Device                         |
| id          | String | No        | Resource UUID, mandatory for update | fe8c7cc0-8bff-11e6-996c-525400b48521 |
| description | String | No        |                                     | Policy for 2Wire-Device              |
| parentId    | String | Yes       |                                     |                                      |

**get\_profiler\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a profiler profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_profiler_profile_by_id`

**`get_profiler_profiles`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the profiler profiles. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_profiler\_profiles*

**`get_profiler_profiles_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the profiler profiles. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_profiler\_profiles\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the profiler profile.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## provider

### class Provider

Identity Services Engine Provider API (version: 3.1.1).

Wraps the Identity Services Engine Provider API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**register\_service** (*name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                          *\*\*query\_parameters*)

ServiceRegister.

#### Parameters

- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**unregister\_service** (*headers=None, \*\*query\_parameters*)  
ServiceUnregister.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reregister\_service** (*headers=None, \*\*query\_parameters*)  
ServiceReregister.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**authorization** (*headers=None, \*\*query\_parameters*)  
Authorization.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**psn\_node\_details\_with\_radius\_service****class PsnNodeDetailsWithRadiusService**

Identity Services Engine PsnNodeDetailsWithRadiusService API (version: 3.1.1).

Wraps the Identity Services Engine PsnNodeDetailsWithRadiusService API and exposes the API as native Python methods that return native Python objects.

PSN Node Details with RADIUS Service API allows the client to get deployment node details where 'Session Services' is enabled.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

**Resource Definition**

| Attribute   | Type   | Re-quired | Description                         | Example Values                       |
|-------------|--------|-----------|-------------------------------------|--------------------------------------|
| name        | String | Yes       | Resource Name                       | TestNode                             |
| id          | String | No        | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description | String | No        |                                     | PSN with Session Service             |
| ipAddress   | String | Yes       |                                     | 10.0.0.1                             |

**get\_session\_service\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a PSN node details by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node\_by\_name*

**get\_session\_service\_node\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a PSN node details by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node\_by\_id*

**`get_session_service_node`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the PSN node details.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node*

**`get_session_service_node_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the PSN node details.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_session\_service\_node\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the PSN node.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## pull\_deployment\_info

### class PullDeploymentInfo

Identity Services Engine PullDeploymentInfo API (version: 3.1.1).

Wraps the Identity Services Engine PullDeploymentInfo API and exposes the API as native Python methods that return native Python objects.

Pull Deployment Info API allows clients to get the complete information about a Cisco ISE deployment. The information includes details about the deployment, network access, NADs, MDMs, licenses, posture and profiler.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |

### Resource Definition

| Attribute         | Type    | Required | Description                         |
|-------------------|---------|----------|-------------------------------------|
| name              | String  | Yes      | Resource Name                       |
| id                | String  | No       | Resource UUID, mandatory for update |
| description       | String  | No       |                                     |
| networkAccessInfo | List    | No       | networkAccessInfo Details           |
| • deploymentID    | String  | Yes      | Deployment ID                       |
| • isCsnEnabled    | Boolean | Yes      | false                               |
| • nodeList        | List    | Yes      | Node list                           |

Continued on next page

Table 25 – continued from previous page

|                   |        |     |   |
|-------------------|--------|-----|---|
| • nodeAndScope    | List   | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean)   |
| • sdaVNs          | List   | No  |   |
| • trustSecControl | String | No  | ISE   |
| • radius3RdParty  | List   | No  |   |
| profilerInfo      | List   | No  | profilerInfo Details  |
| • deploymentID    | String | Yes | Deployment ID   |
| • nodeList        | List   | Yes | Node list   |
| • node            | List   | No  | Includes 'profiles' which is an array of dictionaries describing various attributes with the properties:- profile (List), - customProfilesCount (Integer), - endpointTypes (String), - totalProfilesCount (Integer), - uniqueEndpointsCount (Integer), - unknownEndpointsCount (Integer), - totalEndpointsCount (Integer), - unknownEndpointsPercentage (Integer) |
| deploymentInfo    | List   | No  | deploymentInfo Details  |
| • deploymentID    | String | Yes | Deployment ID   |

Continued on next page

Table 25 – continued from previous page

|                                |         |     |  |
|--------------------------------|---------|-----|--|
| • versionHistoryInfo           | List    | No  | Array of dictionaries describing various attributes with the properties:- opType (String), - mainVersion (String), - epochTime (Integer)   |
| • nodeList                     | List    | Yes | Node list  |
| • nodeAndNodeCountAndCountInfo | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declaredType (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| • fipsstatus                   | String  | No  | Disabled   |
| nadInfo                        | List    | No  | nadInfo Details  |
| • deploymentID                 | String  | Yes | Deployment ID  |
| • nodeList                     | List    | Yes | Node list  |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declaredType (String), - scope (String), - value (List), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean)   |
| • nadcountInfo                 | List    | No  |  |
| • totalActiveNADCount          | Integer | No  | 0  |
| mdmInfo                        | List    | No  | mdmInfo Details  |

Continued on next page

Table 25 – continued from previous page

|                                |         |     |   |
|--------------------------------|---------|-----|---|
| • activeMdmServersCount        | Integer | Yes | 0   |
| • activeDesktopMdmServersCount | Integer | Yes | 0   |
| • activeMobileMdmServersCount  | Integer | Yes | 0   |
| • deploymentID                 | String  | Yes | Deployment ID   |
| • nodeList                     | List    | Yes | Node list   |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| licensesInfo                   | List    | No  | licensesInfo Details  |
| • deploymentID                 | String  | Yes | Deployment ID   |
| • nodeList                     | List    | Yes | Node list   |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| postureInfo                    | List    | No  | postureInfo Details   |

Continued on next page

Table 25 – continued from previous page

|                |        |     |  |
|----------------|--------|-----|--|
| • content      | List   | Yes | Array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| kongInfo       | List   | No  | kongInfo Details   |
| • deploymentID | String | Yes | Deployment ID  |
| • nodeList     | List   | Yes | Node list  |
| • node         | List   | No  | Array of dictionaries describing various attributes with the properties:- sn (String), - service (List)  |

**get\_deployment\_info** (*timeout=None, headers=None, \*\*query\_parameters*)

This API allows the client to pull the deployment information.

#### Parameters

- **timeout** (*float, tuple*) – How long to wait for the server to send data before giving up.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*timeout=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_deployment\_info*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pull deployment info.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## px\_grid\_settings

### class PxGridSettings

Identity Services Engine PxGridSettings API (version: 3.1.1).

Wraps the Identity Services Engine PxGridSettings API and exposes the API as native Python methods that return native Python objects.

pxGrid Settings API allows the client to change auto-approve settings for pxGrid nodes. **Note:** From Cisco ISE Release 3.1, all pxGrid connections must be based on pxGrid 2.0. pxGrid 1.0-based (XMPP-based) integrations will cease to work on Cisco ISE from Release 3.1 onwards. pxGrid Version 2.0, which is based on WebSockets, was introduced in Cisco ISE Release 2.4. We recommend that you plan and upgrade your other systems to pxGrid 2.0-compliant versions in order to prevent potential disruptions, if any, to integrations.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute                     | Type    | Re-<br>quired | Description                                       | Default<br>Values | Example<br>Values |
|-------------------------------|---------|---------------|---|-------------------|-------------------|
| name                          | String  | Yes           | Resource Name                                     |                   |                   |
| id                            | String  | No            | Resource UUID, mandatory for update               |                   |                   |
| description                   | String  | No            |   |                   |                   |
| autoApproveCert-BasedAccounts | Boolean | Yes           | Auto approve certificate based accounts when true | false             | true              |
| allowPassword-BasedAccounts   | Boolean | Yes           | Allow password based accounts when true           | false             |                   |

**autoapprove\_px\_grid\_settings** (*allow\_password\_based\_accounts=None*,  
*auto\_approve\_cert\_based\_accounts=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to auto approve the pxGrid settings.

## Parameters

- **allow\_password\_based\_accounts** (*boolean*) – Allow password based accounts when true, property of the request body.
- **auto\_approve\_cert\_based\_accounts** (*boolean*) – Auto approve certificate based accounts when true, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**autoapprove** (*allow\_password\_based\_accounts=None*, *auto\_approve\_cert\_based\_accounts=None*,  
*headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *autoapprove\_px\_grid\_settings*



**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pxGrid settings.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## radius\_failure

### class RadiusFailure

Identity Services Engine RADIUS Failure API (version: 3.1.1).

Wraps the Identity Services Engine RADIUS Failure API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id, name, portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_failures** (*headers=None, \*\*query\_parameters*)  
getFailures.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**radius\_server\_sequence****class RadiusServerSequence**

Identity Services Engine RADIUSServerSequence API (version: 3.1.1).

Wraps the Identity Services Engine RADIUSServerSequence API and exposes the API as native Python methods that return native Python objects.

RADIUS Server Sequence API allows the client to add, delete, update, search and perform actions on RADIUS server sequence.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |

**Resource Definition**

| Attribute                   | Type    | Required | Description   | Default Values | Example Values                                       |
|-----------------------------|---------|----------|---|----------------|--|
| name                        | String  | Yes      | Resource Name   |                | name   |
| id                          | String  | No       | Resource UUID, mandatory for update   |                | ab6deded-fcc2-47ff-8577-0014737c8fcf                 |
| description                 | String  | No       |   |                | description  |
| stripPrefix                 | Boolean | No       |   | false          |  |
| stripSuffix                 | Boolean | No       |   | false          |  |
| prefixSeparator             | String  | No       | The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character  |                |  |
| suffixSeparator             | String  | No       | The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character  | @              |  |
| remoteAccounting            | Boolean | No       |   | true           |  |
| localAccounting             | Boolean | No       |   | false          |  |
| useAttrSetOnRequest         | Boolean | No       |   | false          |  |
| useAttrSetBeforeAuth        | Boolean | No       |   | false          |  |
| continueAuthorizationPolicy | Boolean | No       |   | false          |  |
| radiusServers               | List    | Yes      | List with names of external radius server. The order of the names in the list is the order of servers that will be used during authentication |                | [ “externalRadiusServer1”, “externalRadiusServer2” ] |
| onRequestAttrManipulators   | List    | No       | The onRequestAttrManipulators is required only if useAttrSetOnRequest is true   |                |  |
| • AttributeManipulator      | Enum    | Yes      | Allowed Values: ADD, UPDATE, REMOVE, REMOVEANY  |                | ADD  |
| • action                    | String  | Yes      |   |                | Cisco  |

**get\_radius\_server\_sequence\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a RADIUS server sequence by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence\_by\_id*

**update\_radius\_server\_sequence\_by\_id** (*id*, *before\_accept\_attr\_manipulators\_list=None*, *continue\_authorz\_policy=None*, *description=None*, *local\_accounting=None*, *name=None*, *on\_request\_attr\_manipulator\_list=None*, *prefix\_separator=None*, *radius\_server\_list=None*, *remote\_accounting=None*, *strip\_prefix=None*, *strip\_suffix=None*, *suffix\_separator=None*, *use\_attr\_set\_before\_acc=None*, *use\_attr\_set\_on\_request=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a RADIUS server sequence.

#### Parameters

- **before\_accept\_attr\_manipulators\_list** (*list*) – The beforeAcceptAttrManipulators is required only if useAttrSetBeforeAcc is true, property of the request body (list of objects).
- **on\_request\_attr\_manipulator\_list** (*list*) – The onRequestAttrManipulators is required only if useAttrSetOnRequest is true, property of the request body (list of objects).
- **radius\_server\_list** (*list*) – RadiusServerList, property of the request body (list of strings).

- **continue\_authorz\_policy** (*boolean*) – continueAuthorzPolicy, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_separator** (*string*) – The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **strip\_prefix** (*boolean*) – stripPrefix, property of the request body.
- **strip\_suffix** (*boolean*) – stripSuffix, property of the request body.
- **suffix\_separator** (*string*) – The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character, property of the request body.
- **use\_attr\_set\_before\_acc** (*boolean*) – useAttrSetBeforeAcc, property of the request body.
- **use\_attr\_set\_on\_request** (*boolean*) – useAttrSetOnRequest, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, before_accept_attr_manipulators_list=None, continue_authorz_policy=None,
               description=None, local_accounting=None, name=None,
               on_request_attr_manipulator_list=None, prefix_separator=None, radius_server_list=None,
               remote_accounting=None, strip_prefix=None, strip_suffix=None,
               suffix_separator=None, use_attr_set_before_acc=None,
               use_attr_set_on_request=None, headers=None, payload=None,
               active_validation=True, **query_parameters)
```

Alias for `update_radius_server_sequence_by_id`

```
delete_radius_server_sequence_by_id (id, headers=None, **query_parameters)
```

This API deletes a RADIUS server sequence.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
delete_by_id (id, headers=None, **query_parameters)
```

Alias for `delete_radius_server_sequence_by_id`

```
get_radius_server_sequence (page=None, size=None, headers=None, **query_parameters)
```

This API allows the client to get all the RADIUS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence*

**`get_radius_server_sequence_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the RADIUS server sequences.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence\_generator*

```
create_radius_server_sequence (before_accept_attr_manipulators_list=None,  
                                continue_authorz_policy=None,           descrip-  
                                tion=None,           local_accounting=None,       name=None,  
                                on_request_attr_manipulator_list=None,       pre-  
                                fix_separator=None,           radius_server_list=None,  
                                remote_accounting=None,           strip_prefix=None,  
                                strip_suffix=None,           suffix_separator=None,  
                                use_attr_set_before_acc=None,  
                                use_attr_set_on_request=None,       headers=None,       pay-  
                                load=None, active_validation=True, **query_parameters)
```

This API creates a RADIUS server sequence.

#### Parameters

- **before\_accept\_attr\_manipulators\_list** (*list*) – The beforeAcceptAttrManipulators is required only if useAttrSetBeforeAcc is true, property of the request body (list of objects).
- **on\_request\_attr\_manipulator\_list** (*list*) – The onRequestAttrManipulators is required only if useAttrSetOnRequest is true, property of the request body (list of objects).
- **radius\_server\_list** (*list*) – RadiusServerList, property of the request body (list of strings).
- **continue\_authorz\_policy** (*boolean*) – continueAuthorzPolicy, property of the request body.
- **description** (*string*) – description, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_separator** (*string*) – The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **strip\_prefix** (*boolean*) – stripPrefix, property of the request body.
- **strip\_suffix** (*boolean*) – stripSuffix, property of the request body.
- **suffix\_separator** (*string*) – The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character, property of the request body.
- **use\_attr\_set\_before\_acc** (*boolean*) – useAttrSetBeforeAcc, property of the request body.
- **use\_attr\_set\_on\_request** (*boolean*) – useAttrSetOnRequest, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*before\_accept\_attr\_manipulators\_list=None, continue\_authorz\_policy=None, description=None, local\_accounting=None, name=None, on\_request\_attr\_manipulator\_list=None, prefix\_separator=None, radius\_server\_list=None, remote\_accounting=None, strip\_prefix=None, strip\_suffix=None, suffix\_separator=None, use\_attr\_set\_before\_acc=None, use\_attr\_set\_on\_request=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_radius\_server\_sequence*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the RADIUS server sequence.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## restid\_store

### **class RestidStore**

Identity Services Engine RESTIDStore API (version: 3.1.1).

Wraps the Identity Services Engine RESTIDStore API and exposes the API as native Python methods that return native Python objects.

REST ID Store API allows clients to add, get, update and delete REST ID stores.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute             | Type   | Required | Description  | Example Values                          |
|-----------------------|--------|----------|--|---|
| name                  | String | Yes      | Resource Name  | RestIdStore1                            |
| id                    | String | No       | Resource UUID, mandatory for update  | b1155994-b736-46af-9add-04bed3058e3a    |
| description           | String | No       |  | Object that represents the restID store |
| restIdStoreAttributes | List   | Yes      | Holds the attributes of the restID object  |   |
| • usernameSuffix      | String | Yes      | Suffix of the user-name domain   | @place.com                              |
| • rootUrl             | String | Yes      | url of the root of the RestIDStore   | rootUrl                                 |
| • predefined          | Enum   | Yes      | The cloud provider connected to of the RestIDStore. Options are: - Azure, - Okta, - None | Azure                                   |
| • headers             | List   | Yes      | Headers for the RestIDStore  |   |
| • key                 | String | Yes      | Key of the header  | tenantID                                |
| • value               | String | Yes      | Value of the header  | tenantID_value                          |

**get\_rest\_id\_store\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a REST ID store by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_rest\_id\_store\_by\_name*

**update\_rest\_id\_store\_by\_name** (*name*, *description=None*, *ers\_rest\_idstore\_attributes=None*,  
*id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a REST ID store by name.

Parameters

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – *ersRestIDStoreAttributes*, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *description=None*, *ers\_rest\_idstore\_attributes=None*, *id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_rest\_id\_store\_by\_name*

**delete\_rest\_id\_store\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a REST ID store by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_rest\_id\_store\_by\_name*

**get\_rest\_id\_store\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a REST ID store by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_rest_id_store_by_id`

`update_rest_id_store_by_id(id, description=None, ers_rest_idstore_attributes=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)`

This API allows the client to update a REST ID store.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – ersRestIDStoreAttributes, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`update_by_id(id, description=None, ers_rest_idstore_attributes=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)`

Alias for `update_rest_id_store_by_id`

`delete_rest_id_store_by_id(id, headers=None, **query_parameters)`

This API deletes a REST ID store.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_rest\_id\_store\_by\_id*

**`get_rest_id_store`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the REST ID stores. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_rest\_id\_store*

**`get_rest_id_store_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the REST ID stores. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.



- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_rest_id_store_generator`

**create\_rest\_id\_store** (*description=None, ers\_rest\_idstore\_attributes=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a REST ID store.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – `ersRestIDStoreAttributes`, property of the request body.
- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** `RestResponse`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, ers\_rest\_idstore\_attributes=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_rest\_id\_store*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the REST ID store.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## repository

### class Repository

Identity Services Engine Repository API (version: 3.1.1).

Wraps the Identity Services Engine Repository API and exposes the API as native Python methods that return native Python objects.

**get\_repositories** (*headers=None, \*\*query\_parameters*)

This will get the full list of repository definitions on the system. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_repositories*

**`create_repository`** (*enable\_pki=None, name=None, password=None, path=None, protocol=None, server\_name=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create a new repository in the system. The name provided for the repository must be unique. .

**Parameters**

- **`enable_pki`** (*boolean*) – enablePki, property of the request body.
- **`name`** (*string*) – Repository name should be less than 80 characters and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **`password`** (*string*) – Password can contain alphanumeric and/or special characters., property of the request body.
- **`path`** (*string*) – Path should always start with “/” and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **`protocol`** (*string*) – protocol, property of the request body. Available values are ‘CDROM’, ‘DISK’, ‘FTP’, ‘HTTP’, ‘HTTPS’, ‘NFS’, ‘SFTP’ and ‘TFTP’.
- **`server_name`** (*string*) – serverName, property of the request body.
- **`user_name`** (*string*) – Username may contain alphanumeric and \_./@\$ characters., property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*enable\_pki=None, name=None, password=None, path=None, protocol=None, server\_name=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_repository*

**get\_repository** (*repository\_name, headers=None, \*\*query\_parameters*)  
Get a specific repository identified by the name passed in the URL. .

#### Parameters

- **repository\_name** (*basestring*) – repositoryName path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*repository\_name, headers=None, \*\*query\_parameters*)  
Alias for *get\_repository*

**update\_repository** (*repository\_name, enable\_pki=None, name=None, password=None, path=None, protocol=None, server\_name=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update the definition of a specific repository, providing ALL parameters for the repository. .

#### Parameters

- **enable\_pki** (*boolean*) – enablePki, property of the request body.
- **name** (*string*) – Repository name should be less than 80 characters and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **password** (*string*) – Password can contain alphanumeric and/or special characters., property of the request body.
- **path** (*string*) – Path should always start with “/” and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.

- **protocol** (*string*) – protocol, property of the request body. Available values are ‘CDROM’, ‘DISK’, ‘FTP’, ‘HTTP’, ‘HTTPS’, ‘NFS’, ‘SFTP’ and ‘TFTP’.
- **server\_name** (*string*) – serverName, property of the request body.
- **user\_name** (*string*) – Username may contain alphanumeric and \_-./@\$ characters., property of the request body.
- **repository\_name** (*basestring*) – repositoryName path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*repository\_name*, *enable\_pki=None*, *name=None*, *password=None*, *path=None*, *protocol=None*, *server\_name=None*, *user\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_repository*

**delete\_repository** (*repository\_name*, *headers=None*, *\*\*query\_parameters*)

Long description TBD .

### Parameters

- **repository\_name** (*basestring*) – repositoryName path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*repository\_name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_repository*

**`get_repository_files`** (*repository\_name*, *headers=None*, *\*\*query\_parameters*)

This will get the full list of files present in the named repository. .

**Parameters**

- **`repository_name`** (*basestring*) – repositoryName path parameter. Unique name for a repository.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_files`** (*repository\_name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_repository\_files*

## sms\_provider

### class SmsProvider

Identity Services Engine SMSProvider API (version: 3.1.1).

Wraps the Identity Services Engine SMSProvider API and exposes the API as native Python methods that return native Python objects.

SMS Provider API allows the client to search the SMS providers configured from Cisco ISE GUI.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Example Values                       |
|-------------|--------|----------|-------------------------------------|--------------------------------------|
| name        | String | Yes      | Resource Name                       | name                                 |
| id          | String | No       | Resource UUID, mandatory for update | b1155994-b736-46af-9add-04bed3058e3a |
| description | String | No       |                                     |                                      |

**get\_sms\_provider** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SMS providers. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW:

Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sms\_provider*

**get\_sms\_provider\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SMS providers. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW:



Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sms\_provider\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SMS provider.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- *MalformedRequest* – If the request body created is invalid.
- *ApiError* – If the Identity Services Engine cloud returns an error.

## sxp\_connections

### class SxpConnections

Identity Services Engine SXPConnections API (version: 3.1.1).

Wraps the Identity Services Engine SXPConnections API and exposes the API as native Python methods that return native Python objects.

SXP Connections API allows clients to add, get, update and delete the Security Group Tag (SGT) Exchange Protocol (SXP) connections.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                 | Revision Modification | Revision Modification                              |
|------------|------------------|-------------------|-----------------------------|-----------------------|--|
|            |                  |                   |                             | Attribute             | Description  |
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version   |                       |  |
| 1          | 1.1              | 3.0               | Cisco ISE 3.0 model changes | sxpVpn                | Attribute can include some VPNs separated by comma |

### Resource Definition

| Attribute   | Type    | Required | Description         | Example Values                       |
|-------------|---------|----------|---------------------|--------------------------------------|
| name        | String  | Yes      | Resource Name       |                                      |
| id          | String  | No       | Resource UUID value | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| description | String  | No       |                     | Brief description about network peer |
| sxpPeer     | String  | Yes      |                     | Sxp Peer Name                        |
| sxpVpn      | String  | Yes      |                     | Sxp VPN Name                         |
| sxpNode     | String  | Yes      |                     | Sxp Node Name                        |
| ipAddress   | String  | Yes      |                     | Sxp Peer IP address                  |
| sxpMode     | String  | Yes      |                     | Sxp Mode                             |
| sxpVersion  | String  | Yes      |                     | Sxp Version                          |
| enabled     | Boolean | Yes      |                     | true                                 |

**get\_sxp\_connections\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP connection by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_connections\_by\_id*

**update\_sxp\_connections\_by\_id** (*id*, *description=None*, *enabled=None*, *ip\_address=None*, *sxp\_mode=None*, *sxp\_node=None*, *sxp\_peer=None*, *sxp\_version=None*, *sxp\_vpn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a SXP connection.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **enabled** (*boolean*) – enabled, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_address** (*string*) – ipAddress, property of the request body.
- **sxp\_mode** (*string*) – sxpMode, property of the request body.
- **sxp\_node** (*string*) – sxpNode, property of the request body.
- **sxp\_peer** (*string*) – sxpPeer, property of the request body.
- **sxp\_version** (*string*) – sxpVersion, property of the request body.
- **sxp\_vpn** (*string*) – sxpVpn, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *description=None*, *enabled=None*, *ip\_address=None*, *sxp\_mode=None*, *sxp\_node=None*, *sxp\_peer=None*, *sxp\_version=None*, *sxp\_vpn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *`update_sxp_connections_by_id`*

**`delete_sxp_connections_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a SXP connection.

**Parameters**

- **`id`**(*basestring*) – id path parameter.
- **`headers`**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sxp_connections_by_id`*

**`get_sxp_connections`**(*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP connections. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_sxp\_connections*

**get\_sxp\_connections\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SXP connections. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

Date:GET

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sxp\_connections\_generator*

**create\_sxp\_connections** (*description=None, enabled=None, ip\_address=None, sxp\_mode=None, sxp\_node=None, sxp\_peer=None, sxp\_version=None, sxp\_vpn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a SXP connection.

### Parameters

- **description** (*string*) – description, property of the request body.
- **enabled** (*boolean*) – enabled, property of the request body.
- **ip\_address** (*string*) – ipAddress, property of the request body.
- **sxp\_mode** (*string*) – sxpMode, property of the request body.
- **sxp\_node** (*string*) – sxpNode, property of the request body.
- **sxp\_peer** (*string*) – sxpPeer, property of the request body.
- **sxp\_version** (*string*) – sxpVersion, property of the request body.
- **sxp\_vpn** (*string*) – sxpVpn, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, enabled=None, ip\_address=None, sxp\_mode=None, sxp\_node=None, sxp\_peer=None, sxp\_version=None, sxp\_vpn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_sxp\_connections*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP connections.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request_for_sxp_connections`** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – `operationType`, property of the request body.
- **`resource_media_type`** (*string*) – `resourceMediaType`, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to `True`.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request`** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *`bulk_request_for_sxp_connections`*

**`monitor_bulk_status_sxp_connections`** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**



- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_sxp\_connections*

## sxp\_local\_bindings

### class SxpLocalBindings

Identity Services Engine SXPLocalBindings API (version: 3.1.1).

Wraps the Identity Services Engine SXPLocalBindings API and exposes the API as native Python methods that return native Python objects.

SXP Local Bindings API allows clients to add, get, update and delete SGT static mappings.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                 | Revision Modification | Revision Modification                       |
|------------|------------------|-------------------|-----------------------------|-----------------------|---|
|            |                  |                   |                             | Attribute             | Description                                 |
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version   |                       |   |
| 1          | 1.1              | 3.0               | Cisco ISE 3.0 model changes | vns                   | Added new property for the Virtual Networks |

## Resource Definition

| Attribute       | Type   | Required | Description  | Example Values                       |
|-----------------|--------|----------|--|--------------------------------------|
| name            | String | Yes      | Resource Name  |                                      |
| id              | String | No       | Resource UUID value  | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| description     | String | No       |  |                                      |
| binding-Name    | String | No       | This field is deprecated from Cisco ISE 3.0  |                                      |
| ipAddressOrHost | String | Yes      | IP address for static mapping (hostname is not supported)  | ipAddressOrHost                      |
| sgt             | String | Yes      | SGT name or ID   | sgt_id                               |
| sxpVpn          | String | Yes      | List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined      | Sxp Vpn Name                         |
| vns             | String | Yes      | List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined | virtualNetwork                       |

**get\_sxp\_local\_bindings\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP local binding by ID.

## Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_local\_bindings\_by\_id*

```
update_sxp_local_bindings_by_id(id, binding_name=None, description=None,
                                ip_address_or_host=None, sgt=None, sxp_vpn=None,
                                vns=None, headers=None, payload=None, ac-
                                tive_validation=True, **query_parameters)
```

This API allows the client to update a SXP local binding.

#### Parameters

- **binding\_name** (*string*) – This field is deprecated from Cisco ISE 3.0, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_address\_or\_host** (*string*) – IP address for static mapping (hostname is not supported), property of the request body.
- **sgt** (*string*) – SGT name or ID, property of the request body.
- **sxp\_vpn** (*string*) – List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **vns** (*string*) – List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, binding_name=None, description=None, ip_address_or_host=None, sgt=None,
             sxp_vpn=None, vns=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_sxp\_local\_bindings\_by\_id*

```
delete_sxp_local_bindings_by_id(id, headers=None, **query_parameters)
```

This API deletes a SXP local binding.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sxp\_local\_bindings\_by\_id*

**get\_sxp\_local\_bindings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP local bindings. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sxp\_local\_bindings*

**get\_sxp\_local\_bindings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SXP local bindings. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sxp\_local\_bindings\_generator*

**create\_sxp\_local\_bindings** (*binding\_name=None, description=None, id=None, ip\_address\_or\_host=None, sgt=None, sxp\_vpn=None, vns=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a SXP local binding.

### Parameters

- **binding\_name** (*string*) – This field is deprecated from Cisco ISE 3.0, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **ip\_address\_or\_host** (*string*) – IP address for static mapping (hostname is not supported), property of the request body.
- **sgt** (*string*) – SGT name or ID, property of the request body.
- **sxp\_vpn** (*string*) – List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **vns** (*string*) – List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*binding\_name=None, description=None, id=None, ip\_address\_or\_host=None, sgt=None, sxp\_vpn=None, vns=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_sxp\_local\_bindings*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP local bindings.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_sxp\_local\_bindings** (*operation\_type=None, source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_sxp\_local\_bindings*

**monitor\_bulk\_status\_sxp\_local\_bindings** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises



- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_sxp\_local\_bindings*

## sxp\_vpns

### class SxpVpns

Identity Services Engine SXPVPNs API (version: 3.1.1).

Wraps the Identity Services Engine SXPVPNs API and exposes the API as native Python methods that return native Python objects.

SXP VPNs API allows clients to add, get and delete SXP VPNs (SXP Domains).

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description         | Example Values                       |
|-------------|--------|----------|---------------------|--------------------------------------|
| name        | String | Yes      | Resource Name       |                                      |
| id          | String | No       | Resource UUID value | ef36ca16-0cf7-4806-b2a9-6f547cfe4805 |
| description | String | No       |                     |                                      |
| sxpVpnName  | String | Yes      |                     | default                              |

**get\_sxp\_vpn\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP VPN by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_sxp_vpn_by_id`*

**`delete_sxp_vpn_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a SXP VPN.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sxp_vpn_by_id`*

**`get_sxp_vpns`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP VPNs. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_vpns*

**get\_sxp\_vpns\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP VPNs. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_vpns\_generator*

**create\_sxp\_vpn** (*sxp\_vpn\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates a SXP VPN.

### Parameters

- **sxp\_vpn\_name** (*string*) – sxpVpnName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*sxp\_vpn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sxp\_vpn*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP VPNs.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_sxp\_vpns** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_sxp\_vpns*

**monitor\_bulk\_status\_sxp\_vpns** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_sxp\_vpns*

## security\_group\_to\_virtual\_network

### class SecurityGroupToVirtualNetwork

Identity Services Engine SecurityGroupToVirtualNetwork API (version: 3.1.1).

Wraps the Identity Services Engine SecurityGroupToVirtualNetwork API and exposes the API as native Python methods that return native Python objects.

SGT mapping to virtual networks are mapped to referenced vlan. These constructs come from out side of Cisco ISE and are not CRUDable inside Cisco ISE.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute            | Type   | Required | Description  | Example Values  |
|----------------------|--------|----------|--|---|
| name                 | String | Yes      | Resource Name  | name  |
| id                   | String | No       | Resource UUID, mandatory for update  | 1af3d6e2-cc3b-4603-b80f-6827768335ab  |
| description          | String | No       |  | description   |
| sgtId                | String | No       |  | sgt_id  |
| virtual-network-list | List   | No       | Includes 'vlans' which is an array of dictionaries describing various attributes with the properties: - id (String), - name (String), - description (String), - defaultVlan (Boolean), - maxVlan (Integer), - data (Boolean) | <pre> {   "id": "1af3d6e2-cc3b-4603-b80f-6827768335ab",   "name": "virtual1",   "description": "description",   "defaultVirtualNetwork": false,   "vlans": [     {       "id": "1af3d6e2-cc3b-4603-b80f-6827768335ab",       "name": "vlan1",       "description": "description1",       "defaultVlan": true,       "maxVlan": 1882725260,       "data": true     }   ] }</pre> |

**get\_security\_groups\_to\_vn\_to\_vlan\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group to virtual network by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_groups\_to\_vn\_to\_vlan\_by\_id*

**update\_security\_groups\_to\_vn\_to\_vlan\_by\_id** (*id*, *description=None*, *name=None*,  
*sgt\_id=None*, *virtualnetwork-*  
*list=None*, *headers=None*, *pay-*  
*load=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a security group to virtual network.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt\_id** (*string*) – sgtId, property of the request body.
- **virtualnetworklist** (*list*) – virtualnetworklist, property of the request body (list of objects).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *description=None*, *name=None*, *sgt\_id=None*, *virtualnetworklist=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for `update_security_groups_to_vn_to_vlan_by_id`

**`delete_security_groups_to_vn_to_vlan_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a security group ACL to virtual network.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for `delete_security_groups_to_vn_to_vlan_by_id`

**`get_security_groups_to_vn_to_vlan`**(*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security group ACL to virtual networks. Filter: [sgtId] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

Date:GET

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_to\_vn\_to\_vlan*

**get\_security\_groups\_to\_vn\_to\_vlan\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security group ACL to virtual networks. Filter: [sgtId] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_all_generator (filter=None, filter_type=None, page=None, size=None, headers=None,  
                    **query_parameters)
```

Alias for `get_security_groups_to_vn_to_vlan_generator`

```
create_security_groups_to_vn_to_vlan(description=None,      id=None,      name=None,
                                       sgt_id=None,         virtualnetworklist=None,
                                       headers=None,         payload=None,      active_validation=True, **query_parameters)
```

This API creates a security group to virtual network.

## Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.

- **sgt\_id** (*string*) – sgtId, property of the request body.
- **virtualnetworklist** (*list*) – virtualnetworklist, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, id=None, name=None, sgt\_id=None, virtualnetworklist=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_groups\_to\_vn\_to\_vlan*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security group to virtual network.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_groups\_to\_vn\_to\_vlan** (*operation\_type=None, re-source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_security\_groups\_to\_vn\_to\_vlan*

**monitor\_bulk\_status\_security\_groups\_to\_vn\_to\_vlan** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_groups\_to\_vn\_to\_vlan*

**security\_groups****class SecurityGroups**

Identity Services Engine SecurityGroups API (version: 3.1.1).

Wraps the Identity Services Engine SecurityGroups API and exposes the API as native Python methods that return native Python objects.

SGT API allows the client to search SGTs.

**Revision History**

| Re-vi-sion # | Re-source Version | Cisco ISE Version | Description                 | Revision Modifica-tion | Revision Modification   |
|--------------|-------------------|-------------------|-----------------------------|------------------------|---|
|              |                   |                   |                             | Attribute              | Description   |
| 0            | 1.0               | 1.2               | Initial Cisco ISE Version   |                        |   |
| 1            | 1.1               | 1.4               | Cisco ISE 1.4 model changes | isTagFrom-Range        | Removed Attribute isTagFromRange - depricated - set to FALSE value by default |
| 2            | 1.2               | 2.3               | Cisco ISE 2.3 model changes | propagate-ToApic       | Added Boolean Attribute propagate-ToApic - By default value is false          |
| 3            | 1.3               | 2.7               | Cisco ISE 2.7 model changes | isRead-Only            | Added Boolean Attribute isReadOnly - By default value is false                |
|              |                   |                   |                             | defaultS-GACLs         | Added List Attribute defaultSGACLs  |

## Resource Definition

| Attribute        | Type    | Re-quired | Description                                    | Default Values | Example Values                       |
|------------------|---------|-----------|--|----------------|--------------------------------------|
| name             | String  | Yes       | Resource Name                                  |                | Employees                            |
| id               | String  | No        | Resource UUID, mandatory for update            |                | 93ad6890-8c01-11e6-996c-525400b48521 |
| description      | String  | No        |  |                | Employee Security Group              |
| value            | Integer | Yes       | Value range: 2 to 65519 or -1 to auto-generate |                | 4                                    |
| propagate-ToApic | Boolean | No        |  |                | true                                 |
| isRead-Only      | Boolean | No        |  | false          |                                      |
| defaultS-GACLs   | List    | No        |  |                | [ ]                                  |
| propagate-ToApic | Boolean | No        |  |                | true                                 |
| generationId     | Integer | No        |  |                | 0                                    |

**get\_security\_group\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_group\_by\_id*

```
update_security_group_by_id(id, default_sgacIs=None, description=None, generation_id=None, is_read_only=None, name=None, propagate_to_apic=None, value=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a security group.

#### Parameters

- **default\_sgacIs** (*list*) – defaultSGACLs, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **name** (*string*) – name, property of the request body.
- **propagate\_to\_apic** (*boolean*) – propagateToApic, property of the request body.
- **value** (*integer*) – Value range: 2 to 65519 or -1 to auto- generate, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, default_sgacIs=None, description=None, generation_id=None, is_read_only=None, name=None, propagate_to_apic=None, value=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_security_group_by_id`

```
delete_security_group_by_id(id, headers=None, **query_parameters)
```

This API deletes a security group.



### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_security\_group\_by\_id*

**get\_security\_groups** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security groups. Filter: [propagateToApic, name, description, value] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description, value].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups*

**get\_security\_groups\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security groups. Filter: [propagateToApic, name, description, value] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description, value].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_generator*

**create\_security\_group** (*default\_sgacls=None, description=None, generation\_id=None, is\_read\_only=None, name=None, propogate\_to\_apic=None, value=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a security group.

### Parameters

- **default\_sgacls** (*list*) – defaultSGACLs, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **name** (*string*) – name, property of the request body.
- **propogate\_to\_apic** (*boolean*) – propogateToApic, property of the request body.
- **value** (*integer*) – Value range: 2 ot 65519 or -1 to auto- generate, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*default\_sgacIs=None, description=None, generation\_id=None, is\_read\_only=None, name=None, propagate\_to\_apic=None, value=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security groups.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_group** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – operationType, property of the request body.

- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_security\_group*

**monitor\_bulk\_status\_security\_group** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- *MalformedRequest* – If the request body created is invalid.
- *ApiError* – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_group*

## security\_groups\_acls

### class SecurityGroupsAcls

Identity Services Engine SecurityGroupsACLs API (version: 3.1.1).

Wraps the Identity Services Engine SecurityGroupsACLs API and exposes the API as native Python methods that return native Python objects.

Security Groups ACLs API allows the client to search security groups access control lists.

### Revision History

| Revi-<br>sion<br># | Resource<br>Version | Cisco ISE<br>Version | Description                 | Revision<br>Modification | Revision Modification                      |
|--------------------|---------------------|----------------------|-----------------------------|--------------------------|--|
|                    |                     |                      |                             | Attribute                | Description                                |
| 0                  | 1.0                 | 2.0                  | Initial Cisco ISE Version   |                          |  |
| 1                  | 1.1                 | 2.3                  | Introducing bulk operations |                          |  |
| 2                  | 1.2                 | 3.1                  | Cisco ISE 3.1 model changes | modelledContent          | Adding modelled content from Cisco ISE 3.1 |

### Resource Definition

| Attribute        | Type    | Required | Description  | Default Values | Example Values                       |
|------------------|---------|----------|--|----------------|--------------------------------------|
| name             | String  | Yes      | Resource Name  |                | Permit IP                            |
| id               | String  | No       | Resource UUID, mandatory for update  |                | 92951ac0-8c01-11e6-996c-525400b48521 |
| description      | String  | No       |  |                | Permit IP SGACL                      |
| ACLContent       | String  | No       |  |                | permit ip                            |
| ipVersion        | Enum    | Yes      | Allowed values: IPV4, IPV6, IP_AGNOSTIC                                    | IPV4           |                                      |
| isRead-Only      | Boolean | No       |  | false          |                                      |
| generationId     | String  | No       | GenerationId is a read only attribute and is being generated by the server |                | 0                                    |
| modelled-Content | List    | No       | Modelled content of contract   |                |                                      |

**get\_security\_groups\_acl\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group ACL by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_groups\_acl\_by\_id*

```
update_security_groups_acl_by_id(id, aclcontent=None, description=None, generation_id=None, ip_version=None, is_read_only=None, modelled_content=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a security group ACL.

#### Parameters

- **aclcontent** (*string*) – aclcontent, property of the request body.
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_version** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **modelled\_content** (*object*) – Modelled content of contract, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, aclcontent=None, description=None, generation_id=None, ip_version=None, is_read_only=None, modelled_content=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *update\_security\_groups\_acl\_by\_id*

```
delete_security_groups_acl_by_id(id, headers=None, **query_parameters)
```

This API deletes a security group ACL.



### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_security\_groups\_acl\_by\_id*

**get\_security\_groups\_acl** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security group ACLs. Filter: [ipVersion, name, description] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [ipVersion, name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_acl*

**get\_security\_groups\_acl\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security group ACLs. Filter: [ipVersion, name, description] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [ipVersion, name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_acl\_generator*

**create\_security\_groups\_acl** (*aclcontent=None, description=None, generation\_id=None, ip\_version=None, is\_read\_only=None, modelled\_content=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a security group ACL.

### Parameters

- **aclcontent** (*string*) – aclcontent, property of the request body.
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **ip\_version** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **modelled\_content** (*object*) – Modelled content of contract, property of the request body.
- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*aclcontent=None, description=None, generation\_id=None, ip\_version=None, is\_read\_only=None, modelled\_content=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_groups\_acl*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security group ACLs.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_groups\_acl** (*operation\_type=None, re-source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_security\_groups\_acl*

**monitor\_bulk\_status\_security\_groups\_acl** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_groups\_acl*

## self\_registered\_portal

### class SelfRegisteredPortal

Identity Services Engine SelfRegisteredPortal API (version: 3.1.1).

Wraps the Identity Services Engine SelfRegisteredPortal API and exposes the API as native Python methods that return native Python objects.

Self Registered Guest Portal API provides the ability to create, read, update, delete and search self registered portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Default Values | Example Values  |
|-------------|--------|----------|-------------------------------------|----------------|---|
| name        | String | Yes      | Resource Name                       |                | Self-Registered Guest Portal (default)  |
| id          | String | No       | Resource UUID, mandatory for update |                | 4e8ade36-4048-472a-b345-632cc155acfc  |
| description | String | No       |                                     |                | Guests may create their own accounts and be assigned a username and password, or use their social login to access the network |

Continued on next page

Table 26 – continued from previous page

|                        |         |     |  |              |   |
|------------------------|---------|-----|--|--------------|---|
| portalTestUrl          | String  | No  | URL to bring up a test page for this portal  |              | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?po4048-472a-b345-632cc155acfc">https://{ise-ip}:8443/portal/PortalSetup.action?po4048-472a-b345-632cc155acfc</a> |
| portalType             | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDE-VICE, SELF-REGGUEST, SPONSOR, SPON-SOREDQUEST | SELFREGGUEST |   |
| settings               | List    | No  | Defines all of the settings groups available for a portal                              |              |   |
| • portalSettings       | List    | No  | The port, interface, certificate, and other basic settings of a portal                 |              |   |
| • httpsPort            | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999    |              | 8443  |
| • allowedInterfaces    | Enum    | Yes | Interfaces that the portal will be reachable on.                                       |              | [ “eth0”, “bond0” ]   |
| • certificateGroupTag  | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal          |              | Default Portal Certificate Group  |
| • authenticationMethod | String  | Yes | Unique Id of the identity source sequence  |              | 92e50f80-8c01-11e6-996c-525400b48521  |

Continued on next page

Table 26 – continued from previous page

|                                    |         |     |   |        |                      |
|------------------------------------|---------|-----|---|--------|----------------------|
| • assignedGuestTypeForEmployee     | String  | Yes | Unique Id of a guest type. Employees using this portal as a guest inherit login options from the guest type |        | Contractor (default) |
| • displayLang                      | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE   |        | USEBROWSERLOCALE     |
| • fallbackLanguage                 | String  | No  | Used when displayLang = USE-BROWSER-LOCALE  |        | English              |
| • alwaysUsedLanguage               | String  | No  | Used when displayLang = ALWAYSUSE   |        | English              |
| • loginPageSettings                | List    | No  | Portal Login Page settings groups follow  |        |                      |
| • maxFailedAttemptsBeforeRateLimit | Integer | No  | Maximum failed login attempts before rate limiting  | 5      |                      |
| • timeBetweenLoginsDuringRateLimit | Integer | No  | Time between login attempts when rate limiting  | 2      |                      |
| • includeAup                       | Boolean | No  | Include an Acceptable Use Policy (AUP) that should be displayed during login                                | false  |                      |
| • aupDisplay                       | Enum    | No  | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.              | ASLINK |                      |

Continued on next page



Table 26 – continued from previous page

|                              |         |    |  |       |       |
|------------------------------|---------|----|--|-------|-------|
| • requireAupAcceptance       | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                   | false |       |
| • requireAccessCode          | Boolean | No | Require the portal user to enter an access code  | false |       |
| • accessCode                 | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true) |       |       |
| • allowGuestToCreateAccounts | Boolean | No |  | false |       |
| • allowGuestToChangePassword | Boolean | No | Require the portal user to enter an access code  | false |       |
| • allowAlternateGuestPortal  | Boolean | No |  |       | false |
| • alternateGuestPortal       | String  | No |  |       |       |
| • selfRegPageSettings        | List    | No |  |       |       |
| • assignGuestsToGuestType    | String  | No | Guests are assigned to this guest type   |       |       |
| • accountValidityDuration    | Integer | No | Self-registered guest account is valid for this many account_validity_time_units             | 1     |       |
| • accountValidityTimeUnits   | Enum    | No | Time units for account_validity_duration.  | DAYS  |       |

Continued on next page

Table 26 – continued from previous page

|                           |         |    |  |       |       |
|---------------------------|---------|----|--|-------|-------|
| • requireRegistrationCode | Boolean | No | Self-registered guests are required to enter a registration code | false |       |
| • registrationCode        | String  | No | The registration code that the guest user must enter             |       |       |
| • fieldUserName           | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldFirstName          | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldLastName           | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldEmailAddr          | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |

Continued on next page

Table 26 – continued from previous page

|                             |         |    |   |  |                    |
|-----------------------------|---------|----|---|--|--------------------|
| •<br>fieldPhoneNo           | List    | No |   |  |                    |
| • include                   | Boolean | No |   |  | true               |
| • require                   | Boolean | No | Only applicable if include = true                             |  | false              |
| •<br>fieldCompany           | List    | No |   |  |                    |
| • include                   | Boolean | No |   |  | true               |
| • require                   | Boolean | No | Only applicable if include = true                             |  | false              |
| •<br>fieldLocation          | List    | No |   |  |                    |
| • include                   | Boolean | No |   |  | true               |
| • require                   | Boolean | No | Only applicable if include = true                             |  | false              |
| •<br>selectableLocations    | List    | No | Guests can choose from these locations to set their time zone |  | [“San Jose”]       |
| •<br>fieldSmsProvider       | List    | No |   |  |                    |
| • include                   | Boolean | No |   |  | true               |
| • require                   | Boolean | No | Only applicable if include = true                             |  | false              |
| •<br>selectableSmsProviders | List    | No | This attribute is an array of SMS provider names              |  | [“Global Default”] |

Continued on next page

Table 26 – continued from previous page

|                                |         |    |  |        |       |
|--------------------------------|---------|----|--|--------|-------|
| •<br>fieldPersonBeingVisited   | List    | No |  |        |       |
| • include                      | Boolean | No |  |        | true  |
| • require                      | Boolean | No | Only applicable if include = true  |        | false |
| •<br>fieldReasonForVisit       | List    | No |  |        |       |
| • include                      | Boolean | No |  |        | true  |
| • require                      | Boolean | No | Only applicable if include = true  |        | false |
| •<br>includeAup                | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login                   | false  |       |
| •<br>aupDisplay                | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. | ASLINK |       |
| •<br>requireAupAcceptance      | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                     | false  |       |
| •<br>enableGuestEmailWhitelist | Boolean | No | Allow guests with an e-mail address from selected domains                                      | false  |       |

Continued on next page

Table 26 – continued from previous page

|                                 |         |    |   |       |  |
|---------------------------------|---------|----|---|-------|--|
| •<br>guestEmailWhitelistDomains | List    | No | Self-registered guests whose e-mail address is in one of these domains will be allowed. Only valid if enableGuestEmailWhitelist = true    |       |  |
| •<br>enableGuestEmailBlacklist  | Boolean | No | Disallow guests with an e-mail address from selected domains  | false |  |
| •<br>guestEmailBlacklistDomains | List    | No | Self-registered guests whose e-mail address is in one of these domains will be disallowed. Only valid if enableGuestEmailBlacklist = true |       |  |
| •<br>requireGuestApproval       | Boolean | No | Require self-registered guests to be approved if true   | false |  |
| •<br>autoLoginSelfWait          | Boolean | No | Allow guests to login automatically from self-registration after sponsor's approval. No need to provide the credentials by guest to login | false |  |

Continued on next page

Table 26 – continued from previous page

|                                  |         |    |   |                         |  |
|----------------------------------|---------|----|---|-------------------------|--|
| •<br>autoLoginTimePeriod         | Integer | No | Waiting period for auto login until sponsor's approval. If time exceeds, guest has to login manually by providing the credentials. Default value is 5 minutes | 5                       |  |
| •<br>sendApprovalRequestTo       | Enum    | No | Specifies where approval requests are sent. Only valid if requireGuestApproval = true.  | SELECTEDEMAILADDRESSES  |  |
| •<br>approvalEmailAddresses      | String  | No | Only valid if requireGuestApproval = true and sendApprovalRequestTo = SELECTEDEMAILADDRESSES  |                         |  |
| •<br>postRegistrationRedirect    | Enum    | No | After the registration submission direct the guest user to one of the following pages. Only valid if requireGuestApproval = true.                             | SELFREGISTRATIONSUCCESS |  |
| •<br>postRegistrationRedirectUrl | String  | No | URL where guest user is redirected after registration. Only valid if requireGuestApproval = true and postRegistrationRedirect = URL                           |                         |  |

Continued on next page

Table 26 – continued from previous page

|                                       |         |    |  |       |  |
|---------------------------------------|---------|----|--|-------|--|
| •<br>credentialNotificationUsingEmail | Boolean | No | If true, send credential notification upon approval using email. Only valid if requireGuestApproval = true                               | false |  |
| •<br>credentialNotificationUsingSms   | Boolean | No | If true, send credential notification upon approval using SMS. Only valid if requireGuestApproval = true                                 | false |  |
| •<br>approveDenyLinksValidFor         | Integer | No | This attribute, along with approveDenyLinksTimeUnits, specifies how long the link can be used. Only valid if requireGuestApproval = true | 1440  |  |
| •<br>approveDenyLinksTimeUnits        | Enum    | No | This attribute, along with approveDenyLinksValidFor, specifies how long the link can be used. Only valid if requireGuestApproval = true. | DAYS  |  |

Continued on next page

Table 26 – continued from previous page

|   |         |    |   |       |  |
|---|---------|----|---|-------|--|
| <ul style="list-style-type: none"><li>• requireApproverToAuthenticate</li></ul> | Boolean | No | When self-registered guests require approval, an approval request is e-mailed to one or more sponsor users. If the Cisco ISE Administrator chooses to include an approval link in the e-mail, a sponsor user who clicks the link will be required to enter their username and password if this attribute is true. Only valid if requireGuestApproval = true | false |  |
|---|---------|----|---|-------|--|

Continued on next page



Table 26 – continued from previous page

|                             |         |    |   |      |  |
|-----------------------------|---------|----|---|------|--|
| •<br>sponsorPortalList      | List    | No | When self-registered guests require approval, an approval request is e-mailed to one or more sponsor users. If the Cisco ISE Administrator chooses to include an approval link in the e-mail, a sponsor user who clicks the link will be authenticated against the selected sponsor portals in the order specified. Only valid if requireGuestApproval = true. The array should contain the names of the selected portals |      |  |
| •<br>selfRegSuccessSettings | List    | No |   |      |  |
| •<br>includeUserName        | Boolean | No |   | true |  |
| •<br>includePassword        | Boolean | No |   | true |  |
| •<br>includeFirstName       | Boolean | No |   | true |  |
| •<br>includeLastName        | Boolean | No |   | true |  |

Continued on next page

Table 26 – continued from previous page

|                                |         |    |  |       |  |
|--------------------------------|---------|----|--|-------|--|
| • includeEmailAddr             | Boolean | No |  | true  |  |
| • includePhoneNo               | Boolean | No |  | true  |  |
| • includeCompany               | Boolean | No |  | true  |  |
| • includeLocation              | Boolean | No |  | true  |  |
| • includeSmsProvider           | Boolean | No |  | true  |  |
| • includePersonBeingVisited    | Boolean | No |  | true  |  |
| • includeReasonForVisit        | Boolean | No |  | true  |  |
| • allowGuestSendSelfUsingPrint | Boolean | No |  | false |  |
| • allowGuestSendSelfUsingEmail | Boolean | No |  | false |  |
| • allowGuestSendSelfUsingSms   | Boolean | No |  | false |  |
| • includeAup                   | Boolean | No |  | false |  |
| • aupOnPage                    | Boolean | No |  | false |  |
| • requireAupAcceptance         | Boolean | No |  | false |  |

Continued on next page

Table 26 – continued from previous page

|   |         |    |  |            |  |
|---|---------|----|--|------------|--|
| • requireAupScrolling                   | Boolean | No |  | false      |  |
| • allowGuestLoginFromSelfregSuccessPage | Boolean | No |  | false      |  |
| • aupSettings                           | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| • displayFrequency                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| • includeAup                            | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| • requireAupScrolling                   | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • useDiffAupForEmployees                | Boolean | No | Only valid if requireAupAcceptance = trueG   | false      |  |
| • skipAupForEmployees                   | Boolean | No | Only valid if requireAupAcceptance = true  | false      |  |
| • displayFrequencyIntervalDays          | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |

Continued on next page

Table 26 – continued from previous page

|                                      |         |    |  |       |  |
|--------------------------------------|---------|----|--|-------|--|
| •<br>GuestChangePasswordSettings     | List    | No |  |       |  |
| •<br>allowChangePasswdAtFirstLogin   | Boolean | No | Allow guest to change their own passwords                            | false |  |
| •<br>guestDeviceRegistrationSettings | List    | No |  |       |  |
| •<br>autoRegisterGuestDevices        | Boolean | No | Automatically register guest devices                                 | true  |  |
| •<br>allowGuestsToRegisterDevices    | Boolean | No | Allow guests to register devices                                     | false |  |
| •<br>byodSettings                    | List    | No | Configuration of BYOD Device Welcome, Registration and Success steps |       |  |
| •<br>byodWelcomeSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration            |       |  |
| •<br>enableBYOD                      | Boolean | No |  | true  |  |
| •<br>enableGuestAccess               | Boolean | No |  | false |  |
| •<br>requireMDM                      | Boolean | No |  | false |  |
| •<br>includeAup                      | Boolean | No |  | true  |  |

Continued on next page

Table 26 – continued from previous page

|                                      |         |    |  |                 |                                      |
|--------------------------------------|---------|----|--|-----------------|--------------------------------------|
| •<br>aupDisplay                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. | ONPAGE          |                                      |
| •<br>requireAupAcceptance            | Boolean | No |  | false           |                                      |
| •<br>requireScrolling                | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true  | false           |                                      |
| •<br>byodRegistrationSettings        | List    | No | Configuration of BYOD endpoint Registration step configuration                                 |                 |                                      |
| •<br>showDeviceID                    | Boolean | No | Display Device ID field during registration  | true            |                                      |
| •<br>endPointIdentityGroupId         | String  | No | Identity group id for which endpoint belongs   |                 | aa13bb40-8bff-11e6-996c-525400b48521 |
| •<br>byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration                         |                 |                                      |
| •<br>successRedirect                 | Enum    | No | After an Authentication Success where should device be redirected.                             | AUTHSUCCESSPAGE |                                      |
| •<br>redirectUrl                     | String  | No | Target URL for redirection, used when successRedirect = URL                                    |                 |                                      |

Continued on next page

Table 26 – continued from previous page

|                              |         |    |  |                 |               |
|------------------------------|---------|----|--|-----------------|---------------|
| •<br>authSuccessSettings     | List    | No |  |                 |               |
| •<br>successRedirect         | Enum    | No | After an Authentication Success where should device be redirected. | AUTHSUCCESSPAGE |               |
| •<br>redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL        |                 | www.cisco.com |
| •<br>postLoginBannerSettings | List    | No |  |                 |               |
| •<br>includePostAccessBanner | Boolean | No | Include a Post-Login Banner page                                   | false           |               |
| •<br>supportInfoSettings     | List    | No | Portal Support Information Settings                                |                 |               |
| •<br>includeSupportInfoPage  | Boolean | No |  | false           |               |
| •<br>includeMacAddr          | Boolean | No |  | false           |               |
| •<br>includeIpAddress        | Boolean | No |  | false           |               |
| •<br>includeBrowserUserAgent | Boolean | No |  | false           |               |
| •<br>includePolicyServer     | Boolean | No |  | false           |               |
| •<br>includeFailureCode      | Boolean | No |  | false           |               |

Continued on next page

Table 26 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • emptyFieldDisplay      | Enum   | No  | Specifies how empty fields are handled on the Support Information Page.                                       |  | HIDE                                     |
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when emptyFieldDisplay = DISPLAY-WITHDEFAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 26 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page



Table 26 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | Guest Portal                   |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 26 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_self\_registered\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a self registered portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_self\_registered\_portal\_by\_id*

**update\_self\_registered\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a self registered portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_self\_registered\_portal\_by\_id*

**delete\_self\_registered\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a self registered portal by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_self\_registered\_portal\_by\_id*

**`get_self_registered_portals`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
*sortasc=None*, *sortdsc=None*, *headers=None*,  
*\*\*query\_parameters*)

This API allows the client to get all the self registered portals. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_self\_registered\_portals*

**`get_self_registered_portals_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the self registered portals. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_self_registered_portals_generator`

**create\_self\_registered\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a self registered portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDGUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_self\_registered\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the self registered portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## session\_directory

### class SessionDirectory

Identity Services Engine Session Directory API (version: 3.1.1).

Wraps the Identity Services Engine Session Directory API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_sessions** (*headers=None*, *\*\*query\_parameters*)  
getSessions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_sessions\_for\_recovery** (*headers=None*, *\*\*query\_parameters*)  
getSessionsForRecovery.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_by\_ip\_address** (*headers=None, \*\*query\_parameters*)  
getSessionByIpAddress.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_by\_mac\_address** (*headers=None, \*\*query\_parameters*)  
getSessionByMacAddress.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_user_groups`** (*headers=None, \*\*query\_parameters*)  
`getUserGroups`.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_user_group_by_user_name`** (*headers=None, \*\*query\_parameters*)  
`getUserGroupByUserName`.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_user\_group\_by\_user\_name*

## sponsor\_group

### **class SponsorGroup**

Identity Services Engine SponsorGroup API (version: 3.1.1).

Wraps the Identity Services Engine SponsorGroup API and exposes the API as native Python methods that return native Python objects.

Sponsor Group API allows the client to add, delete, update and search sponsor groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute | Type   | Required | Description                         | Default Values | Example Values                       |
|-----------|--------|----------|-------------------------------------|----------------|--------------------------------------|
| name      | String | Yes      | Resource Name                       |                | EmplALL_ACCOUNTS<br>(default)oyees   |
| id        | String | No       | Resource UUID, mandatory for update |                | 9f1eca71-8c01-11e6-996c-525400b48521 |

Continued on next page

Table 27 – continued from previous page

|                             |         |    |                 |     |   |
|-----------------------------|---------|----|-----------------|-----|---|
| description                 | String  | No |                 |     | Sponsors assigned to this group can manage all guest user accounts. By default, users in the ALL_ACCOUNTS user identity group are members of this sponsor group |
| isEnabled                   | Boolean | No |                 |     | true  |
| isDefaultGroup              | Boolean | No |                 |     | true  |
| memberGroups                | List    | No |                 |     | ["ALL_ACCOUNTS (default)"]  |
| guestTypes                  | List    | No |                 |     | ["Contractor (default)", "Daily (default)", "Weekly (default)"]   |
| locations                   | List    | No |                 |     | ["San Jose"]  |
| autoNotification            | Boolean | No |                 |     | false   |
| managePermissions           | Enum    | No | Allowed values: |     | ALLACCOUNTS, GROUPACCOUNTS, OWNACCOUNTS   |
| createPermissions           | List    | No |                 |     |   |
| • canImportMultipleAccounts | Boolean | No |                 |     | true  |
| • importBatchSizeLimit      | Integer | No |                 | 200 |   |
| • canCreateRandomAccounts   | Boolean | No |                 |     | true  |
| • randomBatchSizeLimit      | Integer | No |                 | 200 |   |

Continued on next page

Table 27 – continued from previous page

|                             |         |     |  |  |       |
|-----------------------------|---------|-----|--|--|-------|
| • defaultUsernamePrefix     | String  | No  |  |  |       |
| • canSpecifyUsernamePrefix  | Boolean | No  |  |  | true  |
| • canSetFutureStartDate     | Boolean | No  |  |  | false |
| • startDateFutureLimitDays  | Integer | No  |  |  | 1     |
| otherPermissions            | List    | No  |  |  |       |
| • canUpdateGuestContactInfo | Boolean | No  |  |  | true  |
| • canViewGuestPasswords     | Boolean | No  |  |  | true  |
| • canSendSmsNotifications   | Boolean | No  |  |  | false |
| • canResetGuestPasswords    | Boolean | No  |  |  | true  |
| • canExtendGuestAccounts    | Boolean | No  |  |  | true  |
| • canDeleteGuestAccounts    | Boolean | No  |  |  | true  |
| • canSuspendGuestAccounts   | Boolean | Yes |  |  | true  |
| • requireSuspensionReason   | Boolean | No  |  |  | false |

Continued on next page

Table 27 – continued from previous page

|                                    |         |     |  |  |       |
|------------------------------------|---------|-----|--|--|-------|
| •<br>canReinstateSuspendedAccounts | Boolean | No  |  |  | true  |
| •<br>canApproveSelfregGuests       | Boolean | No  |  |  | true  |
| •<br>limitApprovalToSponsorsGuests | Boolean | Yes |  |  | false |
| •<br>canAccessViaRest              | Boolean | No  |  |  | false |

**get\_sponsor\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsor group by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsor\_group\_by\_id*

**update\_sponsor\_group\_by\_id** (*id*, *auto\_notification=None*, *create\_permissions=None*, *description=None*, *guest\_types=None*, *is\_default\_group=None*, *is\_enabled=None*, *locations=None*, *manage\_permission=None*, *member\_groups=None*, *name=None*, *other\_permissions=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a sponsor group by ID.

#### Parameters

- **auto\_notification** (*boolean*) – autoNotification, property of the request body.
- **create\_permissions** (*object*) – createPermissions, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_types** (*list*) – guestTypes, property of the request body (list of strings).
- **id** (*basestring*) – id, property of the request body.
- **is\_default\_group** (*boolean*) – isDefaultGroup, property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **locations** (*list*) – locations, property of the request body (list of strings).
- **manage\_permission** (*string*) – managePermission, property of the request body.
- **member\_groups** (*list*) – memberGroups, property of the request body (list of strings).
- **name** (*string*) – name, property of the request body.
- **other\_permissions** (*object*) – otherPermissions, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, auto_notification=None, create_permissions=None, description=None,
             guest_types=None, is_default_group=None, is_enabled=None, locations=None,
             manage_permission=None, member_groups=None, name=None, other_permissions=None,
             headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_sponsor\_group\_by\_id*

**delete\_sponsor\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a sponsor group by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sponsor\_group\_by\_id*

**get\_sponsor\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsor groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .



- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sponsor\_group*

**get\_sponsor\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_group\_generator*

**create\_sponsor\_group** (*auto\_notification=None, create\_permissions=None, description=None, guest\_types=None, is\_default\_group=None, is\_enabled=None, locations=None, manage\_permission=None, member\_groups=None, name=None, other\_permissions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsor group.

### Parameters

- **auto\_notification** (*boolean*) – autoNotification, property of the request body.
- **create\_permissions** (*object*) – createPermissions, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_types** (*list*) – guestTypes, property of the request body (list of strings).
- **is\_default\_group** (*boolean*) – isDefaultGroup, property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **locations** (*list*) – locations, property of the request body (list of strings).
- **manage\_permission** (*string*) – managePermission, property of the request body.
- **member\_groups** (*list*) – memberGroups, property of the request body (list of strings).
- **name** (*string*) – name, property of the request body.

- **other\_permissions** (*object*) – otherPermissions, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*auto\_notification=None, create\_permissions=None, description=None, guest\_types=None, is\_default\_group=None, is\_enabled=None, locations=None, manage\_permission=None, member\_groups=None, name=None, other\_permissions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sponsor\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- *MalformedRequest* – If the request body created is invalid.
- *ApiError* – If the Identity Services Engine cloud returns an error.

## sponsor\_group\_member

### class SponsorGroupMember

Identity Services Engine SponsorGroupMember API (version: 3.1.1).

Wraps the Identity Services Engine SponsorGroupMember API and exposes the API as native Python methods that return native Python objects.

Sponsor Group API allows the client to search the group members from different identity stores configured in the GUI.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description         | Example Values                       |
|-------------|--------|----------|---------------------|--------------------------------------|
| name        | String | Yes      | Resource Name       | ALL_ACCOUNTS (default)               |
| id          | String | No       | Resource UUID value | a176c430-8c01-11e6-996c-525400b48521 |
| description | String | No       |                     |                                      |
| dicType     | String | Yes      |                     |                                      |
| guid        | String | Yes      |                     |                                      |

**get\_sponsor\_group\_member** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor group members. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_group\_member*

**get\_sponsor\_group\_member\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor group members. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_group\_member\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor group member.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## sponsor\_portal

### class SponsorPortal

Identity Services Engine SponsorPortal API (version: 3.1.1).

Wraps the Identity Services Engine SponsorPortal API and exposes the API as native Python methods that return native Python objects.

Sponsor Portal API provides the ability to create, read, update, delete and search sponsor portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Default Values | Example Values   |
|-------------|--------|----------|-------------------------------------|----------------|--|
| name        | String | Yes      | Resource Name                       |                | Sponsor Portal (default)   |
| id          | String | No       | Resource UUID, mandatory for update |                | 04cd708b-feef-4c75-bf3e-2d2a9c302da2   |
| description | String | No       |                                     |                | Default portal used by sponsors to create and manage accounts for authorized visitors to securely access the network |

Continued on next page

Table 28 – continued from previous page

|                       |         |     |   |         |   |
|-----------------------|---------|-----|---|---------|---|
| portalTestUrl         | String  | No  | URL to bring up a test page for this portal   |         | <a href="https://{ise-ip}:8445/portal/PortalSetup.action?portalId=feef-4c75-bf3e-2d2a9c302da2">https://{ise-ip}:8445/portal/PortalSetup.action?portalId=feef-4c75-bf3e-2d2a9c302da2</a> |
| portalType            | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELF-REGGUEST, SPONSOR, SPONSORED, GUEST                            | SPONSOR |   |
| settings              | List    | No  | Defines all of the settings groups available for a portal   |         |   |
| • portalSettings      | List    | No  | The port, interface, certificate, and other basic settings of a portal  |         |   |
| • httpsPort           | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                               |         | 8445  |
| • allowedInterfaces   | Enum    | Yes | Interfaces that the portal will be reachable on.  |         | [ “eth0”, “bond0” ]   |
| • certificateGroupTag | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal                                     |         | Default Portal Certificate Group  |
| • fqdn                | String  | No  | The fully-qualified domain name (FQDN) that end-users will use to access this portal. Used only in Sponsor portal |         | Default Portal Certificate Group  |

Continued on next page



Table 28 – continued from previous page

|                                    |         |     |  |       |                                      |
|------------------------------------|---------|-----|--|-------|--------------------------------------|
| • authenticationMethod             | String  | Yes | Unique Id of the identity source sequence                                    |       | 92faba60-8c01-11e6-996c-525400b48521 |
| • idleTimeout                      | Integer | No  |  | 10    |                                      |
| • displayLang                      | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE                                |       | USEBROWSERLOCALE                     |
| • fallbackLanguage                 | String  | No  | Used when displayLang = USE-BROWSER-LOCALE                                   |       | English                              |
| • alwaysUsedLanguage               | String  | No  | Used when displayLang = ALWAYSUSE  |       | English                              |
| • availableSsids                   | List    | No  | Names of the SSIDs available for assignment to guest users by sponsors       |       |                                      |
| • loginPageSettings                | List    | No  | Portal Login Page settings groups follow                                     |       |                                      |
| • maxFailedAttemptsBeforeRateLimit | Integer | No  | Maximum failed login attempts before rate limiting                           | 5     |                                      |
| • timeBetweenLoginsDuringRateLimit | Integer | No  | Time between login attempts when rate limiting                               | 2     |                                      |
| • includeAup                       | Boolean | No  | Include an Acceptable Use Policy (AUP) that should be displayed during login | false |                                      |

Continued on next page

Table 28 – continued from previous page

|                                    |         |    |  |            |  |
|------------------------------------|---------|----|--|------------|--|
| •<br>aupDisplay                    | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | ASLINK     |  |
| •<br>requireAupAcceptance          | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                         | false      |  |
| •<br>aupSettings                   | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| •<br>displayFrequency              | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| •<br>includeAup                    | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| •<br>requireAupScrolling           | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| •<br>displayFrequencyIntervalDays  | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |
| •<br>sponsorChangePasswordSettings | List    | No |  |            |  |

Continued on next page

Table 28 – continued from previous page

|                           |         |    |   |       |      |
|---------------------------|---------|----|---|-------|------|
| • allowSponsorToChangePwd | Boolean | No | Allow sponsors to change their own passwords                            | false |      |
| • postLoginBannerSettings | List    | No |   |       |      |
| • includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |      |
| • supportInfoSettings     | List    | No | Portal Support Information Settings                                     |       |      |
| • includeSupportInfoPage  | Boolean | No |   | false |      |
| • includeMacAddr          | Boolean | No |   | false |      |
| • includeIpAddress        | Boolean | No |   | false |      |
| • includeBrowserUserAgent | Boolean | No |   | false |      |
| • includePolicyServer     | Boolean | No |   | false |      |
| • includeFailureCode      | Boolean | No |   | false |      |
| • emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |       | HIDE |

Continued on next page

Table 28 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 28 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 28 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | Guest Portal                   |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 28 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_sponsor\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsor portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsor\_portal\_by\_id*

**update\_sponsor\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a sponsor portal by ID.

#### Parameters

- **customizations** (*object*) – customizations, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_sponsor\_portal\_by\_id*

**delete\_sponsor\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a sponsor portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sponsor_portal_by_id`*

**`get_sponsor_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsor portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_portal*

**`get_sponsor_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sponsor\_portal\_generator*

**create\_sponsor\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsor portal.

**Parameters**

- **customizations** (*object*) – customizations, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sponsor\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor portal.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## sponsored\_guest\_portal

### **class SponsoredGuestPortal**

Identity Services Engine SponsoredGuestPortal API (version: 3.1.1).

Wraps the Identity Services Engine SponsoredGuestPortal API and exposes the API as native Python methods that return native Python objects.

Sponsored Guest Portal API provides the ability to create, read, update, delete and search sponsored guest portals.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Required | Description  | Default Values  | Example Values |
|---------------|--------|----------|--|---|----------------|
| name          | String | Yes      | Resource Name  | Sponsored Guest Portal (default)  |                |
| id            | String | No       | Resource UUID, mandatory for update  | d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33  |                |
| description   | String | No       | Sponsors create guest accounts, and guests access the network using their assigned username and password |   |                |
| portalTestUrl | String | No       | URL to bring up a test page for this portal  | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portal=d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33">https://{ise-ip}:8443/portal/PortalSetup.action?portal=d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33</a> |                |
| portalType    | Enum   | Yes      | Allowed values: BYOD, HOTSPOTGUEST, MYDE-VICE, SELF-REGGUEST, SPONSOR, SPONSOREDGGUEST                   | SPONSOREDGGUEST   |                |
| settings      | List   | No       | Defines all of the settings groups available for a portal  |   |                |

Continued on next page

Table 29 – continued from previous page

|                                |         |     |  |                                      |  |
|--------------------------------|---------|-----|--|--------------------------------------|--|
| • portalSettings               | List    | No  | The port, interface, certificate, and other basic settings of a portal   |                                      |  |
| • httpsPort                    | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                                      | 8443                                 |  |
| • allowedInterfaces            | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 | [ “eth0”, “bond0” ]                  |  |
| • certificateGroupTag          | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  | Default Portal Certificate Group     |  |
| • authenticationMethod         | String  | Yes | Unique Id of the identity source sequence  | 92faba60-8c01-11e6-996c-525400b48521 |  |
| • assignedGuestTypeForEmployee | String  | Yes | Unique Id of a guest type. Employees using this portal as a guest inherit login options from the guest type              | Contractor (default)                 |  |
| • displayLang                  | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  | USEBROWSERLOCALE                     |  |
| • fallbackLanguage             | String  | No  | Used when displayLang = USE-BROWSER-LOCALE   | English                              |  |

Continued on next page

Table 29 – continued from previous page

|                                    |         |    |   |         |  |
|------------------------------------|---------|----|---|---------|--|
| • alwaysUsedLanguage               | String  | No | Used when displayLang = ALWAYSUSE   | English |  |
| • loginPageSettings                | List    | No | Portal Login Page settings groups follow  |         |  |
| • maxFailedAttemptsBeforeRateLimit | Integer | No | Maximum failed login attempts before rate limiting  | 5       |  |
| • timeBetweenLoginsDuringRateLimit | Integer | No | Time between login attempts when rate limiting  | 2       |  |
| • includeAup                       | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login  | false   |  |
| • aupDisplay                       | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ASLINK  |  |
| • requireAupAcceptance             | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true  | false   |  |
| • requireAccessCode                | Boolean | No | Require the portal user to enter an access code   | false   |  |
| • accessCode                       | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true)                                  |         |  |

Continued on next page

Table 29 – continued from previous page

|                                 |         |    |  |            |  |
|---------------------------------|---------|----|--|------------|--|
| •<br>allowGuestToCreateAccounts | Boolean | No | false  |            |  |
| •<br>allowGuestToChangePassword | Boolean | No | Require the portal user to enter an access code  | false      |  |
| •<br>aupSettings                | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal  |            |  |
| •<br>displayFrequency           | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed Values: FIRSTLOGIN, EVERYLOGIN, RECURRING | FIRSTLOGIN |  |
| •<br>includeAup                 | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| •<br>requireAupScrolling        | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true   | false      |  |
| •<br>useDiffAupForEmployees     | Boolean | No | Only valid if requireAupAcceptance = trueG   | false      |  |
| •<br>skipAupForEmployees        | Boolean | No | Only valid if requireAupAcceptance = true  | false      |  |

Continued on next page



Table 29 – continued from previous page

|                                   |         |    |  |       |  |
|-----------------------------------|---------|----|--|-------|--|
| • displayFrequencyIntervalDays    | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring) | 7     |  |
| • GuestChangePasswordSettings     | List    | No |  |       |  |
| • allowChangePasswdAtFirstLogin   | Boolean | No | Allow guest to change their own passwords                                    | false |  |
| • guestDeviceRegistrationSettings | List    | No |  |       |  |
| • autoRegisterGuestDevices        | Boolean | No | Automatically register guest devices   | true  |  |
| • allowGuestsToRegisterDevices    | Boolean | No | Allow guests to register devices   | false |  |
| • byodSettings                    | List    | No | Configuration of BYOD Device Welcome, Registration and Success steps         |       |  |
| • byodWelcomeSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration                    |       |  |
| • enableBYOD                      | Boolean | No | true   |       |  |
| • enableGuestAccess               | Boolean | No | false  |       |  |
| • requireMDM                      | Boolean | No | false  |       |  |

Continued on next page

Table 29 – continued from previous page

|                                   |         |    |   |                                      |  |
|-----------------------------------|---------|----|---|--------------------------------------|--|
| • includeAup                      | Boolean | No | true  |                                      |  |
| • aupDisplay                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ONPAGE                               |  |
| • requireAupAcceptance            | Boolean | No | false   |                                      |  |
| • requireScrolling                | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true                                 | false                                |  |
| • byodRegistrationSettings        | List    | No | Configuration of BYOD endpoint Registration step configuration  |                                      |  |
| • showDeviceID                    | Boolean | No | Display Device ID field during registration   | true                                 |  |
| • endPointIdentityGroupId         | String  | No | Identity group id for which endpoint belongs  | aa13bb40-8bff-11e6-996c-525400b48521 |  |
| • byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration  |                                      |  |

Continued on next page

Table 29 – continued from previous page

|                           |         |    |   |                 |  |
|---------------------------|---------|----|---|-----------------|--|
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   |                 |  |
| • authSuccessSettings     | List    | No |   |                 |  |
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   | www.cisco.com   |  |
| • postLoginBannerSettings | List    | No |   |                 |  |
| • includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false           |  |
| • supportInfoSettings     | List    | No | Portal Support Information Settings   |                 |  |
| • includeSupportInfoPage  | Boolean | No | false   |                 |  |

Continued on next page

Table 29 – continued from previous page

|                              |         |    |   |      |  |
|------------------------------|---------|----|---|------|--|
| •<br>includeMacAddr          | Boolean | No | false   |      |  |
| •<br>includeIpAddress        | Boolean | No | false   |      |  |
| •<br>includeBrowserUserAgent | Boolean | No | false   |      |  |
| •<br>includePolicyServer     | Boolean | No | false   |      |  |
| •<br>includeFailureCode      | Boolean | No | false   |      |  |
| •<br>emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. Allowed values: HIDE, DISPLAY-WITHNO-VALUE, DISPLAYWITH-DEFAULT-VALUE | HIDE |  |
| •<br>defaultEmptyFieldValue  | String  | No | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDEFAULT-VALUE                                |      |  |
| customizations               | List    | No | Defines all of the Portal Customizations available  |      |  |
| •<br>portalTheme             | List    | No | Defines the configuration for portal theme  |      |  |

Continued on next page

Table 29 – continued from previous page

|                         |        |     |   |  |  |
|-------------------------|--------|-----|---|--|--|
| • id                    | String | No  | The unique internal identifier of the portal theme  | 9eb421c0-8c01-11e6-996c-525400b48521     |  |
| • name                  | String | Yes | The system- or user-assigned name of the portal theme   | Default Blue theme                       |  |
| • themeData             | String | No  | A CSS file, represented as a Base64-encoded byte array  | Base 64 encoded string of Theme CSS file |  |
| • portalTweakSettings   | List   | No  | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |  |
| • bannerColor           | String | No  | Hex value of color  | #0000FF                                  |  |
| • bannerTextColor       | String | No  | Banner Text color code from GUI   |  |  |
| • pageBackgroundColor   | String | No  | Color code from GUI   |  |  |
| • pageLabelAndTextColor | String | No  | Label and Text color from GUI   |  |  |

Continued on next page

Table 29 – continued from previous page

|                        |        |    |   |                                |  |
|------------------------|--------|----|---|--------------------------------|--|
| • language             | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported |                                |  |
| • viewLanguage         | String | No | English   |                                |  |
| • globalCustomizations | List   | No | Represent the portal Global customizations  |                                |  |
| • bannerTitle          | String | No | Guest Portal  |                                |  |
| • contactText          | String | No | Contact Support   |                                |  |
| • footerElement        | String | No | Footer Element  |                                |  |
| • mobileLogoImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array   | base 64 encoded value of image |  |
| • desktopLogoImage     | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array   | base 64 encoded value of image |  |
| • bannerImage          | Image  | No |   |                                |  |

Continued on next page

Table 29 – continued from previous page

|                      |        |     |   |                                |  |
|----------------------|--------|-----|---|--------------------------------|--|
| • data               | String | No  | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • backgroundImage    | Image  | No  |   |                                |  |
| • data               | String | No  | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |                                |  |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |                                |  |
| • key                | String | Yes | ui_contact_ip_address_label                                   |                                |  |
| • value              | String | Yes | SVAgYWRkcmVzczo=  |                                |  |

**get\_sponsored\_guest\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsored guest portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsored\_guest\_portal\_by\_id*

**update\_sponsored\_guest\_portal\_by\_id** (*id*, *customizations=None*, *description=None*,  
*name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a sponsored guest portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.



- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_sponsored\_guest\_portal\_by\_id*

**delete\_sponsored\_guest\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a sponsored guest portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sponsored\_guest\_portal\_by\_id*

**get\_sponsored\_guest\_portals** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsored guest portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsored\_guest\_portals*

**get\_sponsored\_guest\_portals\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsored guest portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sponsored\_guest\_portals\_generator*

**create\_sponsored\_guest\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsored guest portal.

### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDGUEST, property of the request body.

- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_sponsored\_guest\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsored guest portal.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## support\_bundle\_download

### class SupportBundleDownload

Identity Services Engine SupportBundleDownload API (version: 3.1.1).

Wraps the Identity Services Engine SupportBundleDownload API and exposes the API as native Python methods that return native Python objects.

Support Bundle Download API allows client to download support bundles provided those are generated and available in the default location.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description  | Example Values |
|-------------|--------|----------|--|----------------|
| name        | String | Yes      | Resource Name  |                |
| id          | String | No       | Resource UUID, mandatory for update                              |                |
| description | String | No       |  |                |
| fileName    | String | Yes      | File name along with path from where file needs to be downloaded | filename       |

**download\_support\_bundle** (*file\_name=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to upload a support bundle.

#### Parameters

- **file\_name** (*string*) – fileName, property of the request body.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

**download** (*file\_name=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *download\_support\_bundle*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the support bundle download.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## support\_bundle\_status

### class SupportBundleStatus

Identity Services Engine SupportBundleStatus API (version: 3.1.1).

Wraps the Identity Services Engine SupportBundleStatus API and exposes the API as native Python methods that return native Python objects.

Support Bundle Status API allows clients to query status of a triggered support bundle.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| At-tribute   | Type    | Re-quired | Description                         | Example Values  |
|--------------|---------|-----------|-------------------------------------|---|
| name         | String  | Yes       | Resource Name                       | ciscoise  |
| id           | String  | No        | Resource UUID, mandatory for update | ciscoise  |
| descrip-tion | String  | No        |                                     | Support Bundle Status api                                     |
| file-Name    | String  | No        |                                     | ise-support-bundle-pk-ciscoise-admin-04-09-2021-15-07.tar.gpg |
| fileSize     | Integer | No        |                                     | 1080924274  |
| host-Name    | String  | No        |                                     | ciscoise  |
| mes-sage     | String  | No        |                                     | Support Bundle generation completed                           |
| start-Time   | String  | No        |                                     | Fri Apr 09 15:07:55 IST 2021                                  |
| status       | String  | No        |                                     | complete  |

**get\_support\_bundle\_status\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a support bundle status by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_support_bundle_status_by_id`*

**`get_support_bundle_status`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the support bundle status.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_support_bundle_status`*

**`get_support_bundle_status_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the support bundle status.



**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_support\_bundle\_status\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)  
This API helps to retrieve the version information related to the support bundle status.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- *ApiError* – If the Identity Services Engine cloud returns an error.

## support\_bundle\_trigger\_configuration

### **class SupportBundleTriggerConfiguration**

Identity Services Engine SupportBundleTriggerConfiguration API (version: 3.1.1).

Wraps the Identity Services Engine SupportBundleTriggerConfiguration API and exposes the API as native Python methods that return native Python objects.

Support Bundle Trigger API allows clients to trigger support bundle provided the log settings are given using which the support needs to be generated.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute            | Type    | Required | Description  | Default Values                       |
|----------------------|---------|----------|--|--------------------------------------|
| name                 | String  | Yes      | Resource Name  | supportBundle                        |
| id                   | String  | No       | Resource UUID, mandatory for update                                  | 1af3d6e2-cc3b-4603-b80f-6827768335ab |
| description          | String  | No       | Support Bundle Generation  |                                      |
| hostName             | String  | Yes      | This parameter is hostName only, xxxx of xxxx.yyy.zz                 | sampleHost                           |
| supportBundleOptions | List    | Yes      |  |                                      |
| • includeConfigDB    | Boolean | Yes      | Set to include Config DB in Support Bundle                           | false                                |
| • includeDebugLogs   | Boolean | Yes      | Set to include Debug logs in Support Bundle                          | false                                |
| • includeLocalLogs   | Boolean | Yes      | Set to include Local logs in Support Bundle                          | false                                |
| • includeCoreFiles   | Boolean | Yes      | Set to include Core files in Support Bundle                          | false                                |
| • includeSystemLogs  | Boolean | Yes      | Set to include System logs in Support Bundle                         | false                                |
| • mntLogs            | Boolean | Yes      | Set to include Monitoring and troubleshooting logs in Support Bundle | false                                |
| • policyXml          | Boolean | Yes      | Set to include Policy XML in Support Bundle                          | false                                |
| • fromDate           | Date    | No       | Date from where support bundle should include the logs               | 04/21/2019                           |
| • toDate             | Date    | No       | Date upto where support bundle should include the logs               | 04/22/2019                           |

**create\_support\_bundle** (*description=None, host\_name=None, name=None, support\_bundle\_include\_options=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a support bundle trigger configuration.

### Parameters

- **description** (*string*) – description, property of the request body.
- **host\_name** (*string*) – This parameter is hostName only, xxxx of xxxx.yyy.zz, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **support\_bundle\_include\_options** (*object*) – supportBundleIncludeOptions, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, host\_name=None, name=None, support\_bundle\_include\_options=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_support\_bundle*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the support bundle trigger configuration.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## system\_health

### class SystemHealth

Identity Services Engine System Health API (version: 3.1.1).

Wraps the Identity Services Engine System Health API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pxs*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_healths** (*headers=None*, *\*\*query\_parameters*)  
getHealths.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_performances** (*headers=None, \*\*query\_parameters*)  
getPerformances.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## system\_certificate

### class SystemCertificate

Identity Services Engine SystemCertificate API (version: 3.1.1).

Wraps the Identity Services Engine SystemCertificate API and exposes the API as native Python methods that return native Python objects.

System Certificate API provides the ability to create certificates like SAML, pxGrid.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |  |  |

#### Resource Definition

| Attribute                   | Type    | Required | Description                         | Example Values                   |
|-----------------------------|---------|----------|-------------------------------------|----------------------------------|
| name                        | String  | Yes      | Resource Name                       |                                  |
| id                          | String  | No       | Resource UUID, mandatory for update |                                  |
| description                 | String  | No       |                                     | Support Bundle Status api        |
| nodeId                      | String  | Yes      | NodeId of Cisco ISE application     | ISE-01                           |
| localCertStub               | List    | Yes      | Inputs for certificate creation     |                                  |
| • subjectStub               | List    | No       | Subject data of certificate         |                                  |
| • commonName                | String  | No       | Common Name                         | \$FQDN\$                         |
| • organizationalUnitName    | String  | No       | Organizational Unit Name            | Cisco-SAMLCert                   |
| • organizationName          | String  | No       | Organizational Name                 | Cisco                            |
| • localityName              | String  | No       | Locality Name                       | City                             |
| • stateOrProvinceName       | String  | No       | State or Province Name              | State                            |
| • countryName               | String  | No       | Country Name                        | Country                          |
| • keyType                   | String  | Yes      | Key Type                            | RSA OR ECDSA                     |
| • keyLength                 | String  | Yes      | Key Length                          | 512 OR 1024 OR 2048 OR 4096      |
| • digest                    | String  | Yes      | Digest                              | SHA-256 OR SHA-384 OR SHA-512    |
| • expirationTTL             | Integer | Yes      | Expiration Time to Live (TTL)       | 2                                |
| • selectedExpirationTTLUnit | String  | Yes      | Selected Expiration TTL Unit        | days OR weeks OR months OR years |
| • groupTagDD                | String  | No       | Group Tag DD                        | add-group-tag                    |
| 1.4. User API Doc           |         |          |                                     | 1355                             |
| • samlCertificate           | String  | No       | SAML Certificate                    | on OR off                        |

**create\_system\_certificate** (*ers\_local\_cert\_stub=None, node\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a system certificate.

#### Parameters

- **ers\_local\_cert\_stub** (*object*) – Inputs for certificate creation, property of the request body.
- **node\_id** (*string*) – NodeId of Cisco ISE application, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*ers\_local\_cert\_stub=None, node\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_system\_certificate*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the system certificate.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response



**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## **tacacs\_command\_sets**

### **class TacacsCommandSets**

Identity Services Engine TACACSCCommandSets API (version: 3.1.1).

Wraps the Identity Services Engine TACACSCCommandSets API and exposes the API as native Python methods that return native Python objects.

TACACS Command Sets API allows the client to add, delete, update, search and perform actions on TACACS command sets.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute       | Type    | Required | Description  | Default Values | Example Values  |
|-----------------|---------|----------|--|----------------|---|
| name            | String  | Yes      | Resource Name  |                | DenyAllCommands   |
| id              | String  | No       | Resource UUID, mandatory for update  |                | 0cef7990-6120-11ea-bffb-7a82c56e81f0                                    |
| description     | String  | No       |  |                | Default Command Set   |
| permitUnmatched | Boolean | No       |  | false          |   |
| commands        | List    | No       | Holds list of Commands   |                |   |
| • commandList   | List    | No       | Array of dictionaries describing various attributes with the properties: <ul style="list-style-type: none"> <li>- grant (Enum. Allowed values: PERMIT, DENY, DENY_ALWAYS),</li> <li>- command (String),</li> <li>- arguments (String)</li> </ul> |                | [ { "grant" : "PERMIT", "command" : "create", "arguments" : "value" } ] |

**get\_tacacs\_command\_sets\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS command sets by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_by\_name*

**get\_tacacs\_command\_sets\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS command sets by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_by\_id*

**update\_tacacs\_command\_sets\_by\_id** (*id*, *commands=None*, *description=None*, *name=None*, *permit\_unmatched=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update TACACS command sets.

#### Parameters

- **commands** (*object*) – commands, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **permit\_unmatched** (*boolean*) – permitUnmatched, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.

- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *commands=None*, *description=None*, *name=None*, *permit\_unmatched=None*,  
*headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_tacacs\_command\_sets\_by\_id*

**delete\_tacacs\_command\_sets\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes TACACS command sets.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_tacacs\_command\_sets\_by\_id*

**get\_tacacs\_command\_sets** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS command sets.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets*

**get\_tacacs\_command\_sets\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS command sets.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_generator*

**create\_tacacs\_command\_sets** (*commands=None, description=None, name=None, permit\_unmatched=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates TACACS command sets.

**Parameters**

- **commands** (*object*) – commands, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **permit\_unmatched** (*boolean*) – permitUnmatched, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*commands=None, description=None, name=None, permit\_unmatched=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_tacacs\_command\_sets*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS command sets.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## tacacs\_external\_servers

### class TacacsExternalServers

Identity Services Engine TACACSExternalServers API (version: 3.1.1).

Wraps the Identity Services Engine TACACSExternalServers API and exposes the API as native Python methods that return native Python objects.

TACACS External Servers API allows the client to add, delete, update, search and perform actions on TACACS external servers.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### Resource Definition

| Attribute      | Type    | Re-<br>quired | Description                         | Default<br>Values | Example Values                       |
|----------------|---------|---------------|-------------------------------------|-------------------|--------------------------------------|
| name           | String  | Yes           | Resource Name                       |                   | TacacsExternalServer1                |
| id             | String  | No            | Resource UUID, mandatory for update |                   | 1af3d6e2-cc3b-4603-b80f-6827768335ab |
| description    | String  | No            |                                     |                   | TacacsExternalServer-ForSDK          |
| hostIP         | String  | Yes           | The server IPV4 address             |                   | 1.1.1.1                              |
| connectionPort | Integer | No            | The port to connect the server      | 49                |                                      |
| single-Connect | Boolean | No            | Define the use of single connection | true              |                                      |
| sharedSecret   | String  | Yes           | The server shared secret            |                   | SharedSecret                         |
| timeout        | Integer | No            | The server timeout                  | 20                |                                      |

**get\_tacacs\_external\_servers\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS external servers by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers\_by\_name*

**get\_tacacs\_external\_servers\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS external servers by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers\_by\_id*

**update\_tacacs\_external\_servers\_by\_id** (*id*, *connection\_port=None*, *description=None*, *host\_ip=None*, *name=None*, *shared\_secret=None*, *single\_connect=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update TACACS external servers.

#### Parameters

- **connection\_port** (*integer*) – The port to connect the server, property of the request body.
- **description** (*string*) – description, property of the request body.
- **host\_ip** (*string*) – The server IPV4 address, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **shared\_secret** (*string*) – The server shared secret, property of the request body.
- **single\_connect** (*boolean*) – Define the use of single connection, property of the request body.
- **timeout** (*integer*) – The server timeout, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *connection\_port=None*, *description=None*, *host\_ip=None*, *name=None*, *shared\_secret=None*, *single\_connect=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_tacacs\_external\_servers\_by\_id*

**delete\_tacacs\_external\_servers\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes TACACS external servers.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_tacacs\_external\_servers\_by\_id*

**get\_tacacs\_external\_servers** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the TACACS external servers.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_tacacs\_external\_servers*

**get\_tacacs\_external\_servers\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS external servers.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers\_generator*

**create\_tacacs\_external\_servers** (*connection\_port=None, description=None, host\_ip=None, name=None, shared\_secret=None, single\_connect=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates TACACS external servers.

#### Parameters

- **connection\_port** (*integer*) – The port to connect the server, property of the request body.
- **description** (*string*) – description, property of the request body.
- **host\_ip** (*string*) – The server IPV4 address, property of the request body.
- **name** (*string*) – name, property of the request body.
- **shared\_secret** (*string*) – The server shared secret, property of the request body.
- **single\_connect** (*boolean*) – Define the use of single connection, property of the request body.
- **timeout** (*integer*) – The server timeout, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*connection\_port=None, description=None, host\_ip=None, name=None, shared\_secret=None, single\_connect=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [create\\_tacacs\\_external\\_servers](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS external servers.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## tacacs\_profile

### class TacacsProfile

Identity Services Engine TACACSPROFILE API (version: 3.1.1).

Wraps the Identity Services Engine TACACSPROFILE API and exposes the API as native Python methods that return native Python objects.

TACACS Profile API allows the client to add, delete, update, search and perform actions on TACACS profile.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute              | Type   | Required | Description  | Example Values  |
|------------------------|--------|----------|--|---|
| name                   | String | Yes      | Resource Name  | Default Shell Profile   |
| id                     | String | No       | Resource UUID, mandatory for update  | 93d7ee70-92b5-11eb-a39d-96858bc78604                              |
| description            | String | No       |  | Default Shell Profile   |
| sessionAttributes      | List   | No       | Holds list of session attributes. View type for GUI is Shell by default  |   |
| • sessionAttributeList | List   | No       | Array of dictionaries describing various attributes with the properties: - type (Enum. Allowed values: MANDATORY, OPTIONAL), - name (String), - value (String) | [ { "type" : "MANDATORY", "name" : "attr1", "value" : "value" } ] |

**get\_tacacs\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS profile by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_profile\_by\_name*

**get\_tacacs\_profile\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_profile\_by\_id*

**update\_tacacs\_profile\_by\_id**(*id*, *description=None*, *name=None*, *session\_attributes=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a TACACS profile.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **session\_attributes** (*object*) – Holds list of session attributes. View type for GUI is Shell by default, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *description=None*, *name=None*, *session\_attributes=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for `update_tacacs_profile_by_id`

**`delete_tacacs_profile_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a TACACS profile.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for `delete_tacacs_profile_by_id`

**`get_tacacs_profile`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)  
This API allows the client to get all the TACACS profiles.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_profile*

**get\_tacacs\_profile\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS profiles.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_profile\_generator*

**create\_tacacs\_profile** (*description=None, name=None, session\_attributes=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a TACACS profile.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **session\_attributes** (*object*) – Holds list of session attributes. View type for GUI is Shell by default, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, session\_attributes=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_tacacs\_profile*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## `tacacs_server_sequence`

### **class TacacsServerSequence**

Identity Services Engine TacacsServerSequence API (version: 3.1.1).

Wraps the Identity Services Engine TacacsServerSequence API and exposes the API as native Python methods that return native Python objects.

TACACS Server Sequence API allows the client to add, delete, update, search and perform actions on TACACS server sequence.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute        | Type    | Required | Description  | Default Values | Example Values                              |
|------------------|---------|----------|--|----------------|---|
| name             | String  | Yes      | Resource Name  |                | TacacsServerSequence1                       |
| id               | String  | No       | Resource UUID, mandatory for update  |                | 1af3d6e2-cc3b-4603-b80f-6827768335ab        |
| description      | String  | No       |  |                | TacacsServerSequenceForSDK                  |
| serverList       | String  | Yes      | The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication |                | TacacsExternalServer1,TacacsExternalServer2 |
| localAccounting  | Boolean | No       |  | false          |   |
| remoteAccounting | Boolean | No       |  | true           |   |
| prefixStrip      | Boolean | No       | Define if a delimiter will be used for prefix strip  | false          |   |
| suffixStrip      | Boolean | No       | Define if a delimiter will be used for suffix strip  | false          |   |
| prefixDelimiter  | String  | No       | The delimiter that will be used for prefix strip   |                |   |
| suffixDelimiter  | String  | No       | The delimiter that will be used for suffix strip   | @              |   |

**get\_tacacs\_server\_sequence\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS server sequence by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_tacacs_server_sequence_by_name`*

**`get_tacacs_server_sequence_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS server sequence by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_tacacs_server_sequence_by_id`*

**`update_tacacs_server_sequence_by_id`** (*id*, *description=None*, *local\_accounting=None*, *name=None*, *prefix\_delimiter=None*, *prefix\_strip=None*, *remote\_accounting=None*, *server\_list=None*, *suffix\_delimiter=None*, *suffix\_strip=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a TACACS server sequence.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.

- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_delimiter** (*string*) – The delimiter that will be used for prefix strip, property of the request body.
- **prefix\_strip** (*boolean*) – Define if a delimiter will be used for prefix strip, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **server\_list** (*string*) – The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication, property of the request body.
- **suffix\_delimiter** (*string*) – The delimiter that will be used for suffix strip, property of the request body.
- **suffix\_strip** (*boolean*) – Define if a delimiter will be used for suffix strip, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, description=None, local_accounting=None, name=None, prefix_delimiter=None,  
              prefix_strip=None, remote_accounting=None, server_list=None, suffix_delimiter=None,  
              suffix_strip=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *update\_tacacs\_server\_sequence\_by\_id*

```
delete_tacacs_server_sequence_by_id (id, headers=None, **query_parameters)
```

This API deletes a TACACS server sequence.

### Parameters

- **id** (*basestring*) – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_tacacs\_server\_sequence\_by\_id*

**get\_tacacs\_server\_sequence** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the TACACS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_tacacs\\_server\\_sequence\*](#)

**get\_tacacs\_server\_sequence\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_tacacs\\_server\\_sequence\\_generator\*](#)

**create\_tacacs\_server\_sequence** (*description=None, local\_accounting=None, name=None, prefix\_delimiter=None, prefix\_strip=None, remote\_accounting=None, server\_list=None, suffix\_delimiter=None, suffix\_strip=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a TACACS server sequence.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_delimiter** (*string*) – The delimiter that will be used for prefix strip, property of the request body.
- **prefix\_strip** (*boolean*) – Define if a delimiter will be used for prefix strip, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.



- **server\_list** (*string*) – The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication, property of the request body.
- **suffix\_delimiter** (*string*) – The delimiter that will be used for suffix strip, property of the request body.
- **suffix\_strip** (*boolean*) – Define if a delimiter will be used for suffix strip, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, local\_accounting=None, name=None, prefix\_delimiter=None, prefix\_strip=None, remote\_accounting=None, server\_list=None, suffix\_delimiter=None, suffix\_strip=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_tacacs\_server\_sequence*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS server sequence.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## telemetry\_information

### **class** TelemetryInformation

Identity Services Engine TelemetryInformation API (version: 3.1.1).

Wraps the Identity Services Engine TelemetryInformation API and exposes the API as native Python methods that return native Python objects.

Telemetry Information API allows clients to get telemetry configuration information.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute    | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       |                                      |
| id           | String | No        | Resource UUID, mandatory for update | ed7176fb-3faf-4060-845e-d5fa5236bd6e |
| description  | String | No        |                                     |                                      |
| status       | String | No        |                                     | SCHEnable                            |
| deploymentId | String | No        |                                     | ed7176fb-3faf-4060-845e-d5fa5236bd6e |
| udiSN        | String | No        |                                     | CH2MKIEGBGO                          |

**get\_telemetry\_info\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get telemetry information by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_telemetry\_info\_by\_id*

**`get_telemetry_information`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the telemetry information. Filter: [deploymentId] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_telemetry_information`*

**`get_telemetry_information_generator`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the telemetry information. Filter: [deploymentId] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *`get_telemetry_information_generator`*

**`get_version`** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the telemetry information.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *`RestResponse`*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## trust\_sec\_configuration

**class `TrustSecConfiguration`**

Identity Services Engine TrustSec Configuration API (version: 3.1.1).

Wraps the Identity Services Engine TrustSec Configuration API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

**## Environment Variables** This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

**## Collection Variables** This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_security\_groups** (*headers=None*, *\*\*query\_parameters*)  
getSecurityGroups.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None*, *\*\*query\_parameters*)  
Alias for *get\_security\_groups*

**get\_security\_group\_acls** (*headers=None*, *\*\*query\_parameters*)  
getSecurityGroupAcls.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_egress_policies`** (*headers=None, \*\*query\_parameters*)  
`getEgressPolicies.`

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_egress_matrices`** (*headers=None, \*\*query\_parameters*)  
`getEgressMatrices.`

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**trust\_sec\_sxp****class TrustSecSxp**

Identity Services Engine TrustSec SXP API (version: 3.1.1).

Wraps the Identity Services Engine TrustSec SXP API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_bindings** (*headers=None*, *\*\*query\_parameters*)  
getBindings.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



## version\_and\_patch

### class VersionAndPatch

Identity Services Engine VersionAndPatch API (version: 3.1.1).

Wraps the Identity Services Engine VersionAndPatch API and exposes the API as native Python methods that return native Python objects.

Version and Patch API is used to provide the Cisco ISE version on which the Cisco ISE cluster is running, and a comma-separated list of the patches that are installed. The highest numbered patch is the patch that the cluster is running on.

**get\_ise\_version\_and\_patch** (*headers=None, \*\*query\_parameters*)

This API allows the client to get Cisco ISE version and patch information.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_ise\_version\_and\_patch*

## version\_info

### class VersionInfo

Identity Services Engine VersionInfo API (version: 3.1.1).

Wraps the Identity Services Engine VersionInfo API and exposes the API as native Python methods that return native Python objects.

Version and Patch API is used to provide the Cisco ISE version on which the Cisco ISE cluster is running, and a comma-separated list of the patches that are installed. The highest numbered patch is the patch that the cluster is running on.

**get\_version\_info** (*resource, headers=None, \*\*query\_parameters*)

Get all VersionInfo.

#### Parameters

- **resource** (*basestring*) – resource path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## endpoint

### class Endpoint

Identity Services Engine endpoint API (version: 3.1.1).

Wraps the Identity Services Engine endpoint API and exposes the API as native Python methods that return native Python objects.

Endpoint API allows the client to add, delete, update, search, register and de-register endpoints. Please note that each API description shows whether the API is supported in bulk operation. The Bulk section is showing only 'create' bulk operation however, all other operation which are bulk supported can be used in same way.

#### Revision History

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Version | Cisco<br>ISE<br>Version | Description                 | Revision<br>Modifica-<br>tion |  |
|-------------------------|--------------------------|-------------------------|-----------------------------|-------------------------------|--|
|                         |                          |                         |                             | Attribute                     | Description  |
| 0                       | 1.0                      | 1.3                     | Initial Cisco ISE Version   |                               |  |
| 1                       | 1.1                      | 2.1                     | Cisco ISE 2.1 model changes | custom-Attributes             | Added custom attributes for the user to include custom attributes when adding endpoints to Cisco ISE |
| 2                       | 1.2                      | 2.2                     | Cisco ISE 2.2 model changes | apiAdded                      | Added custom operation to get list of rejected endpoints: '/getrejectedendpoints'                    |
|                         |                          |                         |                             | apiAdded                      | Added custom operation to release rejected endpoint: '{id}/releaserejectedendpoint'                  |

### Resource Definition

| Attribute                    | Type    | Re-<br>quired | Description                         | Example Values                       |
|------------------------------|---------|---------------|-------------------------------------|--------------------------------------|
| name                         | String  | Yes           | Resource Name                       | 11:22:33:44:55:66                    |
| id                           | String  | No            | Resource UUID, mandatory for update | 172f8270-8f4f-11eb-b4a8-9eb04987ed29 |
| description                  | String  | No            |                                     | MyEndpoint                           |
| customAttributes             | Map     | No            | Key value map                       | {"key1": "value1"}                   |
| groupId                      | String  | Yes           |                                     | aa13bb40-8bff-11e6-996c-525400b48521 |
| identityStore                | String  | No            |                                     | identityStore                        |
| identityStoreId              | String  | No            |                                     | identityStoreId                      |
| mac                          | String  | Yes           |                                     | 11:22:33:44:55:66                    |
| portalUser                   | String  | No            |                                     | portalUser                           |
| profileId                    | String  | No            |                                     | profileId                            |
| staticGroupAs-<br>signment   | Boolean | Yes           |                                     | true                                 |
| staticProfileAs-<br>signment | Boolean | Yes           |                                     | false                                |

**release\_rejected\_endpoint** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to release a rejected endpoint.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`release_rejected`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`release_rejected_endpoint`*

**`deregister_endpoint`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to de-register an endpoint.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deregister`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`deregister_endpoint`*

**`get_rejected_endpoints`** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to get the rejected endpoints.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_rejected** (*headers=None, \*\*query\_parameters*)

Alias for *get\_rejected\_endpoints*

**get\_endpoint\_by\_name** (*name, headers=None, \*\*query\_parameters*)

This API allows the client to get an endpoint by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoint\_by\_name*

**get\_endpoint\_by\_id** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an endpoint by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_by\_id*

**update\_endpoint\_by\_id** (*id*, *custom\_attributes=None*, *description=None*, *group\_id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an endpoint.

### Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.

- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *custom\_attributes=None*, *description=None*, *group\_id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_endpoint\_by\_id*

**delete\_endpoint\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an endpoint.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_endpoint\_by\_id*

**register\_endpoint** (*custom\_attributes=None*, *description=None*, *group\_id=None*, *id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to register an endpoint.

#### Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **id** (*string*) – id, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.
- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response



- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**register** (*custom\_attributes=None, description=None, group\_id=None, id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *register\_endpoint*

**get\_endpoints** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoints. Filter: Filters can be used to filter out Endpoints based on a set of attributes. This API currently provides the following filters: [logicalProfileName, portalUser, staticProfileAssignment, profileId, profile, groupId, staticGroupAssignment, mac] Example 1: The logicalProfileName filter can be used to get Endpoints that belong to a specific Logical Profile. The supported operator for logicalProfileNamefilter is EQ (equal to). The syntax to invoke the API with this filter: `/ers/config/endpoint?filter={filter name}.{operator}.{logical profile name}` Example: `https://{ise-ip}:9060/ers/config/endpoint?filter=logical ProfileName.EQ.LP_Apple` Example 2: To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET `/ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18` Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_endpoints*

**`get_endpoints_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoints. Filter: Filters can be used to filter out Endpoints based on a set of attributes. This API currently provides the following filters: [logicalProfileName, portalUser, staticProfileAssignment, profileId, profile, groupId, staticGroupAssignment, mac] Example 1: The logicalProfileName filter can be used to get Endpoints that belong to a specific Logical Profile. The supported operator for logicalProfileNamefilter is EQ (equal to). The syntax to invoke the API with this filter: `/ers/config/endpoint?filter={filter name}.{operator}.{logical profile name}` Example: `https://{ise-ip}:9060/ers/config/endpoint?filter=logical ProfileName.EQ.LP_Apple` Example 2: To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET `/ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18` Sorting: [name, description].

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoints\_generator*

**create\_endpoint** (*custom\_attributes=None, description=None, group\_id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an endpoint.

### Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.
- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*custom\_attributes=None, description=None, group\_id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_endpoint*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_endpoint** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_request\_for\_endpoint*

**monitor\_bulk\_status\_endpoint** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_endpoint*

## **nbar\_app**

### **class NbarApp**

Identity Services Engine nbarApp API (version: 3.1.1).

Wraps the Identity Services Engine nbarApp API and exposes the API as native Python methods that return native Python objects.

**`get_nbar_apps`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all NBAR Applications.

#### **Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for *get\_nbar\_apps*

**`get_nbar_apps_generator`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all NBAR Applications.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_nbar\_apps\_generator*

**create\_nbar\_app** (*description=None, id=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Create NBAR application.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **network\_identities** (*list*) – Array of NIs, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**create** (*description=None, id=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for [create\\_nbar\\_app](#)

**get\_nbar\_app\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
 Get NBAR Application by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
 Alias for [get\\_nbar\\_app\\_by\\_id](#)

**update\_nbar\_app\_by\_id** (*id, description=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Update NBAR Application.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **network\_identities** (*list*) – Array of NIs, property of the request body (list of objects).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *description=None*, *name=None*, *network\_identities=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_nbar\_app\_by\_id*

**`delete_nbar_app_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
Delete NBAR Application.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_nbar\_app\_by\_id*

## portal

### class Portal

Identity Services Engine portal API (version: 3.1.1).

Wraps the Identity Services Engine portal API and exposes the API as native Python methods that return native Python objects.

Portal API allows the client to search profiles.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description   |
|------------|------------------|-------------------|---|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version                           |
| 1          | 2.0              | 1.3               | Introducing new schema - not supporting 1.0 anymore |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Example Values                            |
|-------------|--------|----------|-------------------------------------|---|
| name        | String | Yes      | Resource Name                       | ISE Portal (default)                      |
| id          | String | No       | Resource UUID, mandatory for update | bc5524ea-b1e5-47ed-a907-5304821da916      |
| description | String | No       |                                     | ISE Portal for saml based feature purpose |
| portal-Type | String | No       |                                     | GUEST                                     |

**get\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_portal\_by\_id*

**`get_portals`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the portals. Filter: [name, description]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portals*

**get\_portals\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portals. Filter: [name, description]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portals\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information realted to the portal.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## proxy

### **class Proxy**

Identity Services Engine proxy API (version: 3.1.1).

Wraps the Identity Services Engine proxy API and exposes the API as native Python methods that return native Python objects.

**get\_proxy\_connection** (*headers=None, \*\*query\_parameters*)

The following functionalities are impacted by the proxy settings: Partner Mobile Management Endpoint Profiler Feed Service Update Endpoint Posture Update Endpoint Posture Agent Resources Download CRL (Certificate Revocation List) Download SMS Message Transmission Social Login Rest Auth Service Azure AD pxGrid Cloud .

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_proxy\_connection** (*bypass\_hosts=None, fqdn=None, password=None, password\_required=None, port=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

The following functionalities are impacted by the proxy settings: Partner Mobile Management Endpoint Profiler Feed Service Update Endpoint Posture Update Endpoint Posture Agent Resources Download CRL (Certificate Revocation List) Download SMS Message Transmission Social Login Rest Auth Service Azure AD pxGrid Cloud .

#### Parameters

- **bypass\_hosts** (*string*) – Bypass hosts for the proxy connection, property of the request body.
- **fqdn** (*string*) – proxy IP address or DNS-resolvable host name, property of the request body.
- **password** (*string*) – Password for the proxy connection, property of the request body.
- **password\_required** (*boolean*) – Indicates whether password configuration is required for Proxy., property of the request body.
- **port** (*integer*) – Port for proxy connection. should be between 1 and 65535, property of the request body.
- **user\_name** (*string*) – User name for the proxy connection, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## `px_grid_node`

### **class PxGridNode**

Identity Services Engine pxGridNode API (version: 3.1.1).

Wraps the Identity Services Engine pxGridNode API and exposes the API as native Python methods that return native Python objects.

pxGrid Node API allows the client to retrieve pxGrid information, delete an existing pxGrid node, and approve new pxGrid nodes. **Note:** From Cisco ISE Release 3.1, all pxGrid connections must be based on pxGrid 2.0. pxGrid 1.0-based (XMPP-based) integrations will cease to work on Cisco ISE from Release 3.1 onwards. pxGrid Version 2.0, which is based on WebSockets, was introduced in Cisco ISE Release 2.4. We recommend that you plan and upgrade your other systems to pxGrid 2.0-compliant versions in order to prevent potential disruptions, if any, to integrations.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute   | Type   | Re-<br>quired | Description                         | Example Values                       |
|-------------|--------|---------------|-------------------------------------|--------------------------------------|
| name        | String | Yes           | Resource Name                       | ers-sample-client                    |
| id          | String | No            | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description | String | No            |                                     | ERS sample client                    |
| status      | String | No            |                                     | Online (XMPP)                        |
| auth-Method | String | No            |                                     | Certificate                          |
| groups      | String | No            |                                     |                                      |



## pxGrid Characterization

### Session data Consumption over pxGrid

On a 35 node Cisco ISE deployment with a dedicated primary Policy Administration node (PAN), dedicated secondary PAN, dedicated primary Monitoring and Troubleshooting node (MnT node), dedicated secondary MnT, dedicated pxGrid node and 30 heterogeneous Policy Service node (PSN) platforms, there was no delay observed in consuming session data with the following parameters as shown in the table below:

| RADIUS Traffic                         | Total number of sessions in the deployment | Number of pxGrid clients (subscribers to the session topic) | pxGrid client's delay in consuming session data |
|--|--|---|---|
| Upto 500 transactions per second (TPS) | ~2 million                                 | 50  | No delay  |

### Bulk download time taken

On a 35 node Cisco ISE deployment with a dedicated primary PAN, dedicated secondary PAN, dedicated primary MnT, dedicated secondary MnT, dedicated pxGrid node and 30 heterogeneous PSN Platforms, the bulk download time for all the pxGrid clients is shown in the table below:

| Total number of sessions in the deployment | Number of pxGrid clients (subscribers to the session topic) | Time taken for bulk download |
|--|---|------------------------------|
| 2 million                                  | 50  | ~17 minutes                  |

**Note:** From Cisco ISE Release 3.1, we can use either `pxgridnode` or `pxgridNode` in the URL.

**approve\_px\_grid\_node** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to approve a pxGrid node. Only pending pxGrid nodes can be approved.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**approve** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *approve\_px\_grid\_node*

**get\_px\_grid\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a pxGrid node by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_px\_grid\_node\_by\_name*

**delete\_px\_grid\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a pxGrid node by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_px_grid_node_by_name`*

**`get_px_grid_node_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a pxGrid node by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_px_grid_node_by_id`*

**`get_px_grid_node`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the npxGrid nodes.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_px\_grid\_node*

**`get_px_grid_node_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the npxGrid nodes.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_px\_grid\_node\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pxGrid node.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## sg\_vn\_mapping

### class SgVnMapping

Identity Services Engine sgVnMapping API (version: 3.1.1).

Wraps the Identity Services Engine sgVnMapping API and exposes the API as native Python methods that return native Python objects.

**get\_sg\_vn\_mappings** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Security Group and Virtual Network mappings.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With

NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS  
Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sg\_vn\_mappings*

**get\_sg\_vn\_mappings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Security Group and Virtual Network mappings.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_sg\_vn\_mappings\_generator*

**create\_sg\_vn\_mapping** (*id=None, last\_update=None, sg\_name=None, sgt\_id=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create Security Group and Virtual Network mapping.

### Parameters

- **id** (*string*) – Identifier of the SG-VN mapping, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the SG-VN mapping, property of the request body.
- **sg\_name** (*string*) – Name of the associated Security Group to be used for identity if id is not provided, property of the request body.
- **sgt\_id** (*string*) – Identifier of the associated Security Group which is required unless its name is provided, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*id=None, last\_update=None, sg\_name=None, sgt\_id=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sg\_vn\_mapping*

**bulk\_create\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create SG-VN Mappings in bulk.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_create\_sg\_vn\_mappings*

**bulk\_delete\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Delete SG-VN Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_delete\_sg\_vn\_mappings*

**bulk\_update\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Update SG-VN Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_update** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_update\_sg\_vn\_mappings*

**get\_sg\_vn\_mapping\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Get Security Group and Virtual Network mapping by id.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_sg\_vn\_mapping\_by\_id*

**update\_sg\_vn\_mapping\_by\_id** (*id, last\_update=None, sg\_name=None, sgt\_id=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update Security Group and Virtual Network mapping.

**Parameters**

- **`id`** (*basestring*) – Identifier of the SG-VN mapping, property of the request body.
- **`last_update`** (*string*) – Timestamp for the last update of the SG-VN mapping, property of the request body.

- **sg\_name** (*string*) – Name of the associated Security Group to be used for identity if id is not provided, property of the request body.
- **sgt\_id** (*string*) – Identifier of the associated Security Group which is required unless its name is provided, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *last\_update=None*, *sg\_name=None*, *sgt\_id=None*, *vn\_id=None*, *vn\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_sg\_vn\_mapping\_by\_id*

**delete\_sg\_vn\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Delete Security Group and Virtual Network mapping.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sg_vn_mapping_by_id`*

## tasks

### class Tasks

Identity Services Engine tasks API (version: 3.1.1).

Wraps the Identity Services Engine tasks API and exposes the API as native Python methods that return native Python objects.

**`get_task_status`** (*headers=None*, *\*\*query\_parameters*)

get all task status.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of `MyDict` objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_task_status_by_id`** (*task\_id*, *headers=None*, *\*\*query\_parameters*)

Monitor task status.

**Parameters**

- **task\_id** (*basestring*) – taskId path parameter. The id of the task executed before.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**telemetry****class Telemetry**

Identity Services Engine telemetry API (version: 3.1.1).

Wraps the Identity Services Engine telemetry API and exposes the API as native Python methods that return native Python objects.

**get\_transport\_gateway** (*headers=None, \*\*query\_parameters*)

Transport Gateway acts a proxy for the communication between the ISE servers in your network and the Telemetry servers in case of air-gapped network.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_transport\_gateway** (*enable\_transport\_gateway=None, url=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Transport Gateway acts a proxy for the communication between the ISE servers in your network and the Telemetry servers in case of air-gapped network.

#### Parameters

- **enable\_transport\_gateway** (*boolean*) – Indicates whether transport gateway is enabled or not., property of the request body.
- **url** (*string*) – URL of transport gateway, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## virtual\_network

### class VirtualNetwork

Identity Services Engine virtualNetwork API (version: 3.1.1).

Wraps the Identity Services Engine virtualNetwork API and exposes the API as native Python methods that return native Python objects.

**get\_virtual\_networks** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Virtual Networks.

#### Parameters

- **page** (*int*) – page query parameter. Page number.

- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_virtual\_networks*

**get\_virtual\_networks\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

Get all Virtual Networks.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.

- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request’s response
  - **text**(str): representation of the request’s response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*,  
*sort\_by=None*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_virtual\_networks\_generator*

**create\_virtual\_network** (*additional\_attributes=None*, *id=None*, *last\_update=None*,  
*name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Create Virtual Network.

### Parameters

- **additional\_attributes** (*string*) – JSON String of additional attributes for the Virtual Network, property of the request body.
- **id** (*string*) – Identifier of the Virtual Network, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the Virtual Network, property of the request body.



- **name** (*string*) – Name of the Virtual Network, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*additional\_attributes=None, id=None, last\_update=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_virtual\_network*

**bulk\_create\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_create\_virtual\_networks*

**bulk\_delete\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Delete Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_delete\_virtual\_networks*

**bulk\_update\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_update** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_update\_virtual\_networks*

**get\_virtual\_network\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Get Virtual Network by id.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_virtual\_network\_by\_id*

**update\_virtual\_network\_by\_id** (*id, additional\_attributes=None, last\_update=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update Virtual Network.

### Parameters

- **additional\_attributes** (*string*) – JSON String of additional attributes for the Virtual Network, property of the request body.
- **id** (*basestring*) – Identifier of the Virtual Network, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the Virtual Network, property of the request body.
- **name** (*string*) – Name of the Virtual Network, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *additional\_attributes=None*, *last\_update=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_virtual\_network\_by\_id*

**delete\_virtual\_network\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Delete Virtual Network.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_virtual_network_by_id`*

## vn\_vlan\_mapping

### **class VnVlanMapping**

Identity Services Engine `vnVlanMapping` API (version: 3.1.1).

Wraps the Identity Services Engine `vnVlanMapping` API and exposes the API as native Python methods that return native Python objects.

**`get_vn_vlan_mappings`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

Get all VN-Vlan Mappings.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for *get\_vn\_vlan\_mappings*

**`get_vn_vlan_mappings_generator`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all VN-Vlan Mappings.

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for *get\_vn\_vlan\_mappings\_generator*

**create\_vn\_vlan\_mapping** (*id=None, is\_data=None, is\_default\_vlan=None, last\_update=None, max\_value=None, name=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create VN-Vlan Mapping.

**Parameters**

- **id** (*string*) – Identifier of the VN-Vlan Mapping, property of the request body.
- **is\_data** (*boolean*) – Flag which indicates whether the Vlan is data or voice type, property of the request body.
- **is\_default\_vlan** (*boolean*) – Flag which indicates if the Vlan is default, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the VN-Vlan Mapping, property of the request body.
- **max\_value** (*integer*) – Max value, property of the request body.
- **name** (*string*) – Name of the Vlan, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*id=None, is\_data=None, is\_default\_vlan=None, last\_update=None, max\_value=None, name=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_vn\_vlan\_mapping*

**bulk\_create\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create VN-Vlan Mappings in bulk.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_create\_vn\_vlan\_mappings*

**bulk\_delete\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Delete VN-Vlan Mappings in bulk.

**Parameters**



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_delete\_vn\_vlan\_mappings*

**bulk\_update\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update VN-Vlan Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_update** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_update\_vn\_vlan\_mappings*

**get\_vn\_vlan\_mapping\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Get VN-Vlan Mapping by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_vn\_vlan\_mapping\_by\_id*

**update\_vn\_vlan\_mapping\_by\_id** (*id, is\_data=None, is\_default\_vlan=None, last\_update=None, max\_value=None, name=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Update VN-Vlan Mapping.

#### Parameters

- **id** (*basestring*) – Identifier of the VN-Vlan Mapping, property of the request body.
- **is\_data** (*boolean*) – Flag which indicates whether the Vlan is data or voice type, property of the request body.
- **is\_default\_vlan** (*boolean*) – Flag which indicates if the Vlan is default, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the VN-Vlan Mapping, property of the request body.
- **max\_value** (*integer*) – Max value, property of the request body.
- **name** (*string*) – Name of the Vlan, property of the request body.

- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_vn\_vlan\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Delete VN-Vlan Mapping.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## IdentityServicesEngineAPI v3.1\_Patch\_1

### aci\_bindings

#### **class** **AciBindings**

Identity Services Engine ACIBindings API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine ACIBindings API and exposes the API as native Python methods that return native Python objects.

The ACI Bindings API allows clients to retrieve bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on the ACI bindings page in the Cisco ISE UI. Filtering will be based on one attribute only, such as ip, sgt, vn, psn, learnedFrom, or learnedBy with CONTAINS mode of search.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute   | Type   | Required | Description   | Example Values  |
|-------------|--------|----------|---|---|
| name        | String | Yes      | Resource Name   |   |
| id          | String | No       | Resource UUID value   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69                        |
| description | String | No       |   |   |
| ip          | String | Yes      | Binding IPv4 address. Each binding will be exclusively identified by its IP address and virtual network | 10.0.0.1  |
| sgt         | String | No       | Security Group Tag (SGT) value. The valid range for SGT values is 0-65534                               | 1234  |
| vn          | String | Yes      | Virtual network. Each binding will be exclusively identified by its IP address and virtual network      | vn1234  |
| psn         | String | No       | Cisco ISE Policy Service node (PSN) IP address  | 10.86.189.216   |
| learnedFrom | String | Yes      | Binding Source  | ISE by ACI ACI by ISE                                       |
| learnedBy   | String | Yes      | Binding Type  | SXP(SXP, 0) STATIC(Static, 1) RADIUS(RADIUS, 2) ACI(ACI, 3) |

**get\_aci\_bindings** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API allows clients to retrieve all the bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on ACI bindings page in the Cisco ISE UI. Filtering will be based on one attribute only, such as ip/sgt/vn/psn/learnedFrom/learnedBy with CONTAINS mode of search.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter\_by** (*basestring, list, set, tuple*) – filterBy query parameter.
- **filter\_value** (*basestring, list, set, tuple*) – filterValue query parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_aci\_bindings*

**get\_aci\_bindings\_generator** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API allows clients to retrieve all the bindings that were sent to Cisco ISE by ACI or received on ACI from Cisco ISE. The binding information will be identical to the information on ACI bindings page in the Cisco ISE UI. Filtering will be based on one attribute only, such as ip/sgt/vn/psn/learnedFrom/learnedBy with CONTAINS mode of search.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter\_by** (*basestring, list, set, tuple*) – filterBy query parameter.
- **filter\_value** (*basestring, list, set, tuple*) – filterValue query parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter\_by=None, filter\_value=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_aci\_bindings\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the Cisco ACI bindings.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## aci\_settings

### class AciSettings

Identity Services Engine ACISettings API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine ACISettings API and exposes the API as native Python methods that return native Python objects.

ACI Settings API allows the client to get and update the ACI Settings. In addition, testing the ACI Domain Manager connection is also possible using the TestACIConnection.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute                   | Type         | Re-<br>quired | Description                                  | Default<br>Values | Example Values                       |
|-----------------------------|--------------|---------------|--|-------------------|--------------------------------------|
| name                        | String       | Yes           | Resource Name                                |                   | AciSettings                          |
| id                          | String       | No            | Resource UUID value                          |                   | 29fb45ab-6a8e-4658-8a28-02521c258178 |
| description                 | String       | No            |  |                   | Aci Settings                         |
| enableAci                   | Boolean      | Yes           | Enable ACI Integration                       | false             |                                      |
| isAci50                     | Boolean      | Yes           | Enable 5.0 ACI Version                       | false             |                                      |
| ipAddressHost-<br>Name      | String       | No            | ACI Cluster IP Address /<br>Host name        |                   |                                      |
| adminName                   | String       | No            | ACI Cluster Admin name                       |                   |                                      |
| adminPassword               | String       | No            | ACI Cluster Admin pass-<br>word              |                   |                                      |
| tenantName                  | String       | No            | ACI Cluster Tenant name                      | ISE               |                                      |
| l3RouteNetwork              | String       | No            | ACI Cluster L3 Route net-<br>work name       | L3_ROUTE          |                                      |
| suffixToEpg                 | String       | No            | Name Conversion - EPG<br>suffix              | SGT               |                                      |
| suffixToSgt                 | String       | No            | Name Conversion - SGT<br>suffix              | EPG               |                                      |
| allSxpDomain                | Boolean      | No            | SXP Propagation to all the<br>SXP domains    | false             |                                      |
| specificSxpDo-<br>main      | Boolean      | No            | SXP Propagation to spe-<br>cific SXP domains | true              |                                      |
| specifixSxpDo-<br>mainList  | List         | No            | Specific SXP domains list                    | [default]         |                                      |
| isAci51                     | Boolean      | Yes           | Enable 5.1 ACI Version                       | false             |                                      |
| aciipaddress                | String       | No            | ACI Domain manager Ip<br>Address             |                   |                                      |
| aciuserName                 | String       | No            | ACI Domain manager<br>Username               |                   |                                      |
| acipassword                 | String       | No            | ACI Domain manager<br>Password               |                   |                                      |
| enableData-<br>Plane        | Boolean      | No            | Enable data plane                            | false             |                                      |
| untaggedPack-<br>etIepgName | String       | No            | Untagged IEPG packets<br>name                | untagged          |                                      |
| defaultSgtName              | String       | No            | Default SGT name                             | Unknown           |                                      |
| enableEle-<br>mentsLimit    | Boolean      | No            | Enable Elements Limit                        | false             |                                      |
| maxNu-<br>mIepgFromAci      | Inte-<br>ger | No            | Max number of IEPGs                          | 1000              |                                      |
| maxNumSgt-<br>ToAci         | Inte-<br>ger | No            | Max number of SGTs                           | 500               |                                      |

**get\_aci\_settings** (*headers=None, \*\*query\_parameters*)

This API allows the client to get ACI Settings.

## Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_aci\_settings*

**test\_aci\_connectivity** (*headers=None, \*\*query\_parameters*)

This API allows the client to test ACI Domain Manager connection.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_aci_settings_by_id(id, aci50=None, aci51=None, aciipaddress=None, aci-
                           password=None, aciuser_name=None, admin_name=None,
                           admin_password=None, all_sxp_domain=None,
                           default_sgt_name=None, enable_aci=None, enable_data_plane=None,
                           enable_elements_limit=None, ip_address_host_name=None,
                           l3_route_network=None, max_num_iepg_from_aci=None,
                           max_num_sgt_to_aci=None, specific_sxp_domain=None,
                           specifix_sxp_domain_list=None, suffix_to_epg=None,
                           suffix_to_sgt=None, tenant_name=None, untagged_packet_iepg_name=None,
                           headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update ACI settings.

#### Parameters

- **aci50** (*boolean*) – Enable 5.0 ACI Version, property of the request body.
- **aci51** (*boolean*) – Enable 5.1 ACI Version, property of the request body.
- **aciipaddress** (*string*) – ACI Domain manager Ip Address., property of the request body.
- **acipassword** (*string*) – ACI Domain manager Password., property of the request body.
- **aciuser\_name** (*string*) – ACI Domain manager Username., property of the request body.
- **admin\_name** (*string*) – ACI Cluster Admin name, property of the request body.
- **admin\_password** (*string*) – ACI Cluster Admin password, property of the request body.
- **all\_sxp\_domain** (*boolean*) – allSxpDomain, property of the request body.
- **default\_sgt\_name** (*string*) – defaultSgtName, property of the request body.
- **enable\_aci** (*boolean*) – Enable ACI Integration, property of the request body.
- **enable\_data\_plane** (*boolean*) – enableDataPlane, property of the request body.
- **enable\_elements\_limit** (*boolean*) – enableElementsLimit, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **ip\_address\_host\_name** (*string*) – ACI Cluster IP Address / Host name, property of the request body.
- **l3\_route\_network** (*string*) – l3RouteNetwork, property of the request body.
- **max\_num\_iepg\_from\_aci** (*integer*) – maxNumIepgFromAci, property of the request body.
- **max\_num\_sgt\_to\_aci** (*integer*) – maxNumSgtToAci, property of the request body.
- **specific\_sxp\_domain** (*boolean*) – specificSxpDomain, property of the request body.
- **specifix\_sxp\_domain\_list** (*list*) – specifixSxpDomainList, property of the request body (list of strings).
- **suffix\_to\_epg** (*string*) – suffixToEpg, property of the request body.

- **suffix\_to\_sgt** (*string*) – suffixToSgt, property of the request body.
- **tenant\_name** (*string*) – tenantName, property of the request body.
- **untagged\_packet\_iepg\_name** (*string*) – untaggedPacketIepgName, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, aci50=None, aci51=None, aciipaddress=None, acipassword=None,
             aciuser_name=None, admin_name=None, admin_password=None,
             all_sxp_domain=None, default_sgt_name=None, enable_aci=None, enable_data_plane=None,
             enable_elements_limit=None, ip_address_host_name=None, l3_route_network=None,
             max_num_iepg_from_aci=None, max_num_sgt_to_aci=None, specific_sxp_domain=None,
             specific_sxp_domain_list=None, suffix_to_epg=None, suffix_to_sgt=None, tenant_name=None,
             untagged_packet_iepg_name=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_aci\_settings\_by\_id*

```
get_version(headers=None, **query_parameters)
```

This API helps to retrieve the version information related to the Cisco ACI settings.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## anc\_endpoint

### **class AncEndpoint**

Identity Services Engine ANCEndpoint API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine ANCEndpoint API and exposes the API as native Python methods that return native Python objects.

Adaptive Network Control (ANC) provides the ability to create network endpoint authorization controls based on ANC policies.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |  |

### **Resource Definition**

| Attribute    | Type   | Re-quired | Description                               | Example Values                       |
|--------------|--------|-----------|---|--------------------------------------|
| name         | String | Yes       | Resource Name                             |                                      |
| id           | String | No        | Resource UUID                             | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| descrip-tion | String | No        |   |                                      |
| macAd-dress  | String | Yes       | MAC address of the endpoint               | 00:11:22:33:44:55                    |
| policy-Name  | String | Yes       | Policy name to be applied to the endpoint | policy1                              |

## Supported ANC API transactions per second

On a 5 node Cisco ISE deployment with 60k sessions or on a 9 node Cisco ISE deployment with 200k/500k sessions, 250 transactions per second (TPS) is supported for any ANC API.

### Supported ANC APIs

\* applyEndpointByMacAddress \* clearEndpointByMacaddress \* applyEndpointByIpAddress \*  
applyEndpointPolicy \* clearEndpointPolicy

| Deployment | Number of Sessions | Supported ANC APIs TPS |
|------------|--------------------|------------------------|
| 5 nodes    | 60k                | 250                    |
| 9 nodes    | 200k               | 250                    |
| 5 nodes    | 500k               | 250                    |

**get\_anc\_endpoint\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC endpoint by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_endpoint\_by\_id*

**clear\_anc\_endpoint** (*additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to clear the required configuration.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**clear** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *clear\_anc\_endpoint*

**get\_anc\_endpoint** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC endpoints. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_anc\_endpoint*

**get\_anc\_endpoint\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC endpoints. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_anc\_endpoint\_generator*

**apply\_anc\_endpoint** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to apply the required configuration.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises



- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**apply** (*additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *apply\_anc\_endpoint*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the ANC Endpoint.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_anc\_endpoint** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request`** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *`bulk_request_for_anc_endpoint`*

**`monitor_bulk_status_anc_endpoint`** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**

- **`bulkid`** (*basestring*) – bulkid path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *`monitor_bulk_status_anc_endpoint`*

## active\_directory

### class ActiveDirectory

Identity Services Engine ActiveDirectory API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine ActiveDirectory API and exposes the API as native Python methods that return native Python objects.

The Active Directory API allows the user to carry out add, delete, and search operations on the active directory domains through Cisco ISE's join points. For example, if you want to connect to the domain cisco.com and retrieve the domain groups, you can carry out the following steps which are also available as APIs: Step 1 Create a domain join point in Cisco ISE. In the "domain" parameter use cisco.com.

Step 2 Get all defined join points and copy your join point's ID from the response.

Step 3 Join all Cisco ISE nodes to the domain. Use the ID received in the Step 2 in the URL. From this point onwards, you can perform several actions. In each action you should specify the joint point ID in the URL, as retrieved in step 2 in the previous configuration task. For example, you can:

- Retrieve the user groups using the join point ID.

- Retrieve the groups of a specific domain using the join point ID. The domain parameter can be cisco.com or any of its trusted domains. You can use the get all trusted domains operation to retrieve the list.

### Revision History

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Version | Description   | Revision<br>Modifica-<br>tion        | Revision Modification   |
|-------------------------|-------------------------------|-------------------------|---|--------------------------------------|---|
|                         |                               |                         |   | Attribute                            | Description   |
| 0                       | 1.0                           | 2.2                     | Initial Cisco ISE Version   |                                      |   |
| 1                       | 1.1                           | 2.4                     | Support new attributes  | advanced-<br>Settings                | Added ERSActiveDirectoryAd-<br>vancedSettings Attribute 'ad-<br>vancedSettings' |
|                         |                               |                         |   | adAt-<br>tributes                    | Added ERSActiveDirectoryAt-<br>tributes Attribute 'adAttributes'                |
|                         |                               |                         |   | enable-<br>Domain-<br>WhiteList      | Added Boolean Attribute 'en-<br>ableDomainWhiteList'                            |
| 2                       | 1.2                           | 3.1                     | Support new attributes<br>under ActiveDirectory<br>AdvancedSettings | enable-<br>FailedAuth-<br>Protection | Added Boolean Attribute 'en-<br>ableFailedAuthProtection'                       |
|                         |                               |                         |   | failedAu-<br>thThresh-<br>old        | Added Integer Attribute<br>'failedAuthThreshold'                                |
|                         |                               |                         |   | auth Protec-<br>tionType             | Added Enum Attribute 'authPro-<br>tectionType'                                  |

### Resource Definition

| Attribute             | Type    | Required | Description  | Default Values | Example Values                       |
|-----------------------|---------|----------|--|----------------|--------------------------------------|
| name                  | String  | Yes      | Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/_ characters  | ...            | Company_users                        |
| id                    | String  | No       | Resource UUID value  | ...            | af1cd190-7d71-11eb-b02e-ead13cf60dcb |
| description           | String  | No       | No character restriction   | ...            | Group of Active company users        |
| domain                | String  | Yes      | The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed   | ...            | cisco.com                            |
| adScopesNames         | String  | No       | String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (_) characters are allowed | Default_Scope  | ...                                  |
| enableDomainWhitelist | Boolean | No       | ...  | true           | ...                                  |
| adGroups              | List    | No       | Holds list of AD Groups  | ...            | ...                                  |
| • groups              | List    | No       | List of Groups   | ...            | ...                                  |

Continued on next page

Table 30 – continued from previous page

|              |        |     |   |        |                     |
|--------------|--------|-----|---|--------|---------------------|
| • name       | String | Yes | Required for each group in the group list with no duplication between groups. All characters are allowed except %   | ...    | cisco.com/operators |
| • sid        | String | Yes | Cisco ISE uses security identifiers (SIDs) for optimization of group membership evaluation. SIDs are useful for efficiency (speed) when the groups are evaluated. All characters are allowed except % | ...    | S-1-5-32-548        |
| • type       | String | No  | No character restriction  | ...    | GLOBAL              |
| adAttributes | List   | No  | Holds list of AD Attributes   | ...    | ...                 |
| • attributes | List   | No  | List of Attributes  | ...    | ...                 |
| • name       | String | Yes | Required for each attribute in the attribute list with no duplication between attributes. All characters are allowed except <%”   | ...    | name1               |
| • type       | Enum   | Yes | Required for each group in the group list. Allowed values:<br>- STRING,<br>- IP,<br>- BOOLEAN,<br>- INT,<br>- OCTET_STRING  | STRING | ...                 |

Continued on next page

Table 30 – continued from previous page

|                  |         |     |  |     |               |
|------------------|---------|-----|--|-----|---------------|
| • internalName   | String  | Yes | Required for each attribute in the attribute list. All characters are allowed except <%”   | ... | internalName1 |
| • defaultValue   | String  | Yes | Required for each attribute in the attribute list. Can contain an empty string. All characters are allowed except <%”  | ... | defaultString |
| advancedSettings | List    | No  | ...  | ... | ...           |
| • rewriteRules   | List    | No  | Identity rewrite is an advanced feature that directs Cisco ISE to manipulate the identity before it is passed to the external Active Directory system. You can create rules to change the identity to a desired format that includes or excludes a domain prefix and/or suffix or other additional markup of your choice | ... | ...           |
| • rowId          | Integer | Yes | Required for each rule in the list in serial order   | ... | 0             |
| • rewriteMatch   | String  | Yes | Required for each rule in the list with no duplication between rules. All characters are allowed except %”   | ... | exampleMatch0 |

Continued on next page

Table 30 – continued from previous page

|                                    |         |     |  |                      |                |
|------------------------------------|---------|-----|--|----------------------|----------------|
| •<br>rewriteResult                 | String  | Yes | Required for each rule in the list. All characters are allowed except %” | ...                  | exampleResult0 |
| •<br>enableRewrites                | Boolean | No  | ...  | false                | ...            |
| •<br>enablePassChange              | Boolean | No  | ...  | true                 | ...            |
| •<br>enableMachineAuth             | Boolean | No  | ...  | true                 | ...            |
| •<br>enableMachineAccess           | Boolean | No  | ...  | true                 | ...            |
| •<br>enableDialinPermissionCheck   | Boolean | No  | ...  | false                | ...            |
| •<br>plaintextAuth                 | Boolean | No  | ...  | false                | ...            |
| •<br>agingTime                     | Integer | No  | Range 1-8760 hours   | 5                    | ...            |
| •<br>enableCallbackForDialinClient | Boolean | No  | ...  | false                | ...            |
| •<br>identityNotInAdBehaviour      | Enum    | No  | Allowed values:<br>- REJECT,<br>- SEARCH_JOINED_FOREST,<br>- SEARCH_ALL  | SEARCH_JOINED_FOREST | ...            |
| •<br>unreachableDomainsBehaviour   | Enum    | No  | Allowed values:<br>- PROCEED,<br>- DROP                                  | PROCEED              | ...            |

Continued on next page

Table 30 – continued from previous page

|                      |        |    |  |                  |     |
|----------------------|--------|----|--|------------------|-----|
| • schema             | Enum   | No | Allowed values: - ACTIVE_DIRECTORY, - CUSTOM-Choose ACTIVE_DIRECTORY schema when the AD attributes defined in AD can be copied to relevant attributes in Cisco ISE. If customization is needed, choose CUSTOM schema. All User info attributes are always set to default value if schema is ACTIVE_DIRECTORY. Values can be changed only for CUSTOM schema | ACTIVE_DIRECTORY |     |
| • firstName          | String | No | User info attribute. All characters are allowed except %   | givenName        | ... |
| • department         | String | No | User info attribute. All characters are allowed except %   | department       | ... |
| • lastName           | String | No | User info attribute. All characters are allowed except %   | sn               | ... |
| • organizationalUnit | String | No | User info attribute. All characters are allowed except %   | company          | ... |
| • jobTitle           | String | No | User info attribute. All characters are allowed except %   | title            | ... |

Continued on next page



Table 30 – continued from previous page

|                              |         |    |   |                 |     |
|------------------------------|---------|----|---|-----------------|-----|
| • locality                   | String  | No | User info attribute. All characters are allowed except %                      | l               | ... |
| • email                      | String  | No | User info attribute. All characters are allowed except %                      | mail            | ... |
| • stateOrProvince            | String  | No | User info attribute. All characters are allowed except %                      | st              | ... |
| • telephone                  | String  | No | User info attribute. All characters are allowed except %                      | telephoneNumber | ... |
| • country                    | String  | No | User info attribute. All characters are allowed except %                      | co              | ... |
| • streetAddress              | String  | No | User info attribute. All characters are allowed except %                      | streetAddress   | ... |
| • enableFailedAuthProtection | Boolean | No | Enable prevent AD account lockout due to too many bad password attempts       | false           | ... |
| • failedAuthThreshold        | Integer | No | Number of bad password attempts   | 5               | ... |
| • authProtectionType         | Enum    | No | Enable prevent AD account lockout. Allowed values:- WIRELESS, - WIRED, - BOTH | WIRELESS        | ... |

**get\_active\_directory\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get Active Directory by name.

#### Parameters

- **name** (*basestring*) – name path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_active\_directory\_by\_name*

**get\_user\_groups** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to get groups of which a given user is a member.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**load\_groups\_from\_domain** (*id*, *ad\_attributes=None*, *ad\_scopes\_names=None*, *adgroups=None*, *advanced\_settings=None*, *description=None*, *domain=None*, *enable\_domain\_white\_list=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API loads domain groups configuration from Active Directory into Cisco ISE.

#### Parameters

- **ad\_attributes** (*object*) – Holds list of AD Attributes, property of the request body.
- **ad\_scopes\_names** (*string*) – String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (\_) characters are allowed, property of the request body.
- **adgroups** (*object*) – Holds list of AD Groups, property of the request body.
- **advanced\_settings** (*object*) – advancedSettings, property of the request body.
- **description** (*string*) – No character restriction, property of the request body.
- **domain** (*string*) – The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed, property of the request body.
- **enable\_domain\_white\_list** (*boolean*) – enableDomainWhiteList, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **name** (*string*) – Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/characters, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**leave\_domain** (*id*, *additional\_data*=None, *headers*=None, *payload*=None, *active\_validation*=True, *\*\*query\_parameters*)

This API makes a Cisco ISE node to leave an Active Directory domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**is\_user\_member\_of\_groups** (*id*, *additional\_data*=None, *headers*=None, *payload*=None, *active\_validation*=True, *\*\*query\_parameters*)

This API verifies if the user is a member of the given groups.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_trusted_domains`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API gets the list of domains that are accessible through the given join point via trust relationships.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`join_domain_with_all_nodes`** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins all Cisco ISE Nodes to an Active Directory domain.

**Parameters**

- **`additional_data`** (*list*) – additionalData, property of the request body (list of objects).
- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**leave\_domain\_with\_all\_nodes** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins makes all Cisco ISE nodes leave an Active Directory domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_groups\_by\_domain** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API lists the groups of the given domain.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_active\_directory\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API fetches the join point details by ID. The ID can be retrieved with the Get All operation.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_active\_directory\_by\_id*

**delete\_active\_directory\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an AD join point from Cisco ISE.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_active\_directory\_by\_id*

**join\_domain** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API joins a Cisco ISE node to an Active Directory domain.

**Parameters**

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_active_directory`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API lists all the join points for Active Directory domains in Cisco ISE.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_active\_directory*

**`get_active_directory_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API lists all the join points for Active Directory domains in Cisco ISE.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.

- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_active\\_directory\\_generator\*](#)

**create\_active\_directory** (*ad\_attributes=None, ad\_scopes\_names=None, adgroups=None, advanced\_settings=None, description=None, domain=None, enable\_domain\_white\_list=None, id=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an AD join point in Cisco ISE.

### Parameters

- **ad\_attributes** (*object*) – Holds list of AD Attributes, property of the request body.
- **ad\_scopes\_names** (*string*) – String that contains the names of the scopes that the active directory belongs to. Names are separated by comma. Alphanumeric, underscore (\_) characters are allowed, property of the request body.
- **adgroups** (*object*) – Holds list of AD Groups, property of the request body.
- **advanced\_settings** (*object*) – advancedSettings, property of the request body.
- **description** (*string*) – No character restriction, property of the request body.
- **domain** (*string*) – The AD domain. Alphanumeric, hyphen (-) and dot (.) characters are allowed, property of the request body.
- **enable\_domain\_white\_list** (*boolean*) – enableDomainWhiteList, property of the request body.
- **id** (*string*) – Resource UUID value, property of the request body.
- **name** (*string*) – Resource Name. Maximum 32 characters allowed. Allowed characters are alphanumeric and .-/characters, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*ad\_attributes=None, ad\_scopes\_names=None, adgroups=None, advanced\_settings=None, description=None, domain=None, enable\_domain\_white\_list=None, id=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_active\_directory*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the active directory.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**admin\_user****class AdminUser**

Identity Services Engine AdminUser API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine AdminUser API and exposes the API as native Python methods that return native Python objects.

The Admin User API allows to retrieve information related to admin users configured on Cisco ISE.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description                      |
|------------|------------------|-------------------|----------------------------------|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version        |
| 1          | 1.1              | 2.0               | Cisco ISE Release 2.3 Admin User |

**Resource Definition**

| Attribute                              | Type    | Re-<br>quired | Description   | Example Values                           | De-<br>fault<br>Value |
|--|---------|---------------|---|--|-----------------------|
| name                                   | String  | Yes           | Resource Name   |  |                       |
| id                                     | String  | Yes           | Resource UUID   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69     |                       |
| description                            | String  | No            |   |  |                       |
| changePass-<br>word                    | Boolean | Yes           |   | true                                     | true                  |
| email                                  | String  | No            |   | <a href="#">email1@domain.com</a>        |                       |
| includeSys-<br>temAlarm-<br>sInEmail   | Boolean | No            |   | false                                    |                       |
| inactiveAc-<br>countN-<br>everDisabled | Boolean | No            |   | true                                     |                       |
| enabled                                | Boolean | Yes           |   | false                                    |                       |
| external                               | Boolean | No            |   | true                                     |                       |
| customAt-<br>tributes                  | String  | No            | Key Value Map   | {“MyCustom-<br>Attribute” :<br>“Value1”} |                       |
| firstName                              | String  | No            |   |  |                       |
| adminGroups                            | String  | No            | Admin Group Names   | Super Admin                              |                       |
| lastName                               | String  | No            |   |  |                       |
| password                               | String  | No            | The password field doesn’t show the actual password configured. It is hidden with the asterisk (*) symbol |  |                       |

`get_admin_user_by_id(id, headers=None, **query_parameters)`

This API allows the client to get an admin user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_admin_user_by_id`

`get_admin_users(filter=None, filter_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, **query_parameters)`

This API allows the client to get all the admin users. Filter: [firstName, lastName, adminGroups, name, description, inactiveAccountNeverDisabled, includeSystemAlarmsInEmail, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_admin\_users*

**get\_admin\_users\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the admin users. Filter: [firstName, lastName, adminGroups, name, description, inactiveAccountNeverDisabled, includeSystemAlarmsInEmail, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_admin\_users\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the admin user.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

## allowed\_protocols

### class AllowedProtocols

Identity Services Engine AllowedProtocols API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine AllowedProtocols API and exposes the API as native Python methods that return native Python objects.

Allowed Protocols API allows the client to add, delete, update, search and perform actions on allowed protocols.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               | Revision Modification                | Revision Modification                                     |
|------------|------------------|-------------------|---------------------------|--------------------------------------|---|
|            |                  |                   |                           | Attribute                            | Description   |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |                                      |   |
| 1          | 1.1              | 2.7               | Added support for TEAP    | preferredEapProtocol                 | Added value 'TEAP' to enum attribute preferredEapProtocol |
|            |                  |                   |                           | allowTeap                            | Added boolean attribute allowTeap                         |
|            |                  |                   |                           | allowTeapEapMsChapV2                 | Added boolean attribute allowTeapEapMsChapV2              |
|            |                  |                   |                           | allowTeapEapMsChapV2PwdChange        | Added boolean attribute allowTeap                         |
|            |                  |                   |                           | allowTeapEapMsChapV2PwdChangeRetries | Added int attribute allowTeapEapMsChapV2PwdChangeRetries  |
|            |                  |                   |                           | allowTeapEapTls                      | Added boolean attribute allowTeapEapTls                   |

### Resource Definition

| Attribute | Type   | Required | Description                         | Example Values                       |
|-----------|--------|----------|-------------------------------------|--------------------------------------|
| name      | String | Yes      | Resource Name                       | Default Device Admin                 |
| id        | String | No       | Resource UUID, Mandatory for update | 926901b0-8c01-11e6-996c-525400b48521 |

Continued on next page



Table 31 – continued from previous page

| description                          | String  | No  |  | Default Protocol Device Admin | Allowed Service Admin |
|--------------------------------------|---------|-----|--|-------------------------------|-----------------------|
| processHostLookup                    | Boolean | Yes |  | true                          |                       |
| allowPapAscii                        | Boolean | No  |  | true                          |                       |
| allowChap                            | Boolean | Yes |  | false                         |                       |
| allowMsChapV1                        | Boolean | Yes |  | false                         |                       |
| allowMsChapV2                        | Boolean | Yes |  | false                         |                       |
| allowEapMd5                          | Boolean | Yes |  | true                          |                       |
| allowLeap                            | Boolean | Yes |  | false                         |                       |
| allowEapTls                          | Boolean | Yes |  | true                          |                       |
| allowEapTtls                         | Boolean | Yes |  | true                          |                       |
| allowEapFast                         | Boolean | Yes |  | true                          |                       |
| allowPeap                            | Boolean | Yes |  | true                          |                       |
| allowTeap                            | Boolean | Yes |  | true                          |                       |
| allowPreferredEapProtocol            | Boolean | Yes |  | true                          |                       |
| eapTlsLBit                           | Boolean | Yes |  | false                         |                       |
| allowWeakCiphersForEap               | Boolean | Yes |  | false                         |                       |
| requireMessageAuth                   | Boolean | Yes |  | false                         |                       |
| preferredEapProtocol                 | Enum    | No  | The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored.                                  | PEAP                          |                       |
| eapTls                               | List    | No  | The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol |                               |                       |
| • allowEapTlsAuthOfExpiredCerts      | Boolean | Yes |  | false                         |                       |
| • eapTlsEnableStatelessSessionResume | Boolean | Yes |  | false                         |                       |

Continued on next page

Table 31 – continued from previous page

|                                    |         |     |  |         |
|------------------------------------|---------|-----|--|---------|
| •<br>eapTlsSessionTicketTtl        | Integer | No  | Time to live. The eapTlsSessionTicketTtl is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored                  | 1       |
| •<br>eapTlsSessionTicketTtlUnits   | Enum    | No  | Time to live time units. The eapTlsSessionTicketTtlUnits is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored. | SECONDS |
| •<br>eapTlsSessionTicketPercentage | Integer | No  | The eapTlsSessionTicketPercentage is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored                         | 1       |
| peap                               | List    | No  | The peap is required only if allowPeap is true, otherwise it must be ignored. The object peap contains the settings for PEAP protocol                  |         |
| •<br>allowPeapEapMsChapV2          | Boolean | Yes |  | true    |
| •<br>allowPeapEapMsChapV2PwdChange | Boolean | No  | The allowPeapEapMsChapV2PwdChange is required only if allowPeapEapMsChapV2 is true, otherwise it must be ignored                                       | true    |

Continued on next page

Table 31 – continued from previous page

|  |         |     |  |       |
|--|---------|-----|--|-------|
| •<br>allowPeapEapMsChapV2PwChangeRetries | Integer | No  | The allowPeapEapMsChapV2PwChangeRetries is required only if allowPeapEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3 | 1     |
| •<br>allowPeapEapGtc                     | Boolean | Yes |  | false |
| •<br>allowPeapEapGtcPwChange             | Boolean | No  | The allowPeapEapGtcPwChange is required only if allowPeapEapGtc is true, otherwise it must be ignored                                      | false |
| •<br>allowPeapEapGtcPwChangeRetries      | Integer | No  | The allowPeapEapGtcPwChangeRetries is required only if allowPeapEapGtc is true, otherwise it must be ignored. Valid range is 0-3           | 1     |
| •<br>allowPeapEapTls                     | Boolean | Yes |  | true  |
| •<br>allowPeapEapTlsAuthOfExpiredCerts   | Boolean | No  | The allowPeapEapTlsAuthOfExpiredCerts is required only if allowPeapEapTls is true, otherwise it must be ignored                            | false |
| •<br>requireCryptobinding                | Boolean | Yes |  | false |
| •<br>allowPeapV0                         | Boolean | Yes |  | false |

Continued on next page

Table 31 – continued from previous page

|                                      |         |     |  |      |
|--------------------------------------|---------|-----|--|------|
| eapTtls                              | List    | No  | The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol |      |
| • eapTtlsPapAscii                    | Boolean | Yes |  | true |
| • eapTtlsChap                        | Boolean | Yes |  | true |
| • eapTtlsMsChapV1                    | Boolean | Yes |  | true |
| • eapTtlsMsChapV2                    | Boolean | Yes |  | true |
| • eapTtlsEapMd5                      | Boolean | Yes |  | true |
| • eapTtlsEapMsChapV2                 | Boolean | Yes |  | true |
| • eapTtlsEapMsChapV2PwdChange        | Boolean | No  | The eapTtlsEapMsChapV2PwdChange is required only if eapTtlsEapMsChapV2 is true, otherwise it must be ignored                                       | true |
| • eapTtlsEapMsChapV2PwdChangeRetries | Integer | No  | The eapTtlsEapMsChapV2PwdChangeRetries is required only if eapTtlsEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3            | 1    |

Continued on next page

Table 31 – continued from previous page

|  |         |     |   |      |
|--|---------|-----|---|------|
| eapFast                                  | List    | No  | The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eap-Fast contains the settings for EAP FAST protocol |      |
| • allowEapFastEapMsChapV2                | Boolean | Yes |   | true |
| • allowEapFastEapMsChapV2PwChange        | Boolean | No  | The allowEap-FastEapM-sChapV2PwChange is required only if allowEap-FastEapM-sChapV2 is true, otherwise it must be ignored                           | true |
| • allowEapFastEapMsChapV2PwChangeRetries | Integer | No  | The allowEap-FastEapM-sChapV2PwChangeRetries is required only if eapTlsEapM-sChapV2 is true, otherwise it must be ignored. Valid range is 0-3       | 1    |
| • allowEapFastEapGtc                     | Boolean | Yes |   | true |
| • allowEapFastEapGtcPwChange             | Boolean | No  | The allowEap-FastEapGtcPw-Change is required only if allowEap-FastEapGtc is true, otherwise it must be ignored                                      | true |
| • allowEapFastEapGtcPwChangeRetries      | Integer | No  | The allowEap-FastEapGtcPw-ChangeRetries is required only if allowEap-FastEapGtc is true, otherwise it must be ignored. Valid range is 0-3           | 1    |

Continued on next page

Table 31 – continued from previous page

|  |         |     |  |         |
|--|---------|-----|--|---------|
| •<br>allowEapFastEapTls                            | Boolean | Yes |  | true    |
| •<br>allowEapFastEapTlsAuthOfExpiredCerts          | Boolean | No  | The allowEapFastEapTlsAuthOfExpiredCerts is required only if allowEapFastEapTls is true, otherwise it must be ignored      | false   |
| •<br>eapFastEnableEAPChaining                      | Boolean | Yes |  | false   |
| •<br>eapFastUsePacs                                | Boolean | Yes |  | true    |
| •<br>eapFastUsePacsTunnelPacTtl                    | Integer | No  | The eapFastUsePacsTunnelPacTtl is required only if eapFastUsePacs is true, otherwise it must be ignored                    | 7776000 |
| •<br>eapFastUsePacsTunnelPacTtlUnits               | Enum    | No  | The eapFastUsePacsTunnelPacTtlUnits is required only if eapFastUsePacs is true, otherwise it must be ignored.              | SECONDS |
| •<br>eapFastUsePacsUseProactivePacUpdatePrecentage | Integer | No  | The eapFastUsePacsUseProactivePacUpdatePrecentage is required only if eapFastUsePacs is true, otherwise it must be ignored | 10      |
| •<br>eapFastUsePacsAllowAnonymProvisioning         | Boolean | No  | The eapFastUsePacsAllowAnonymProvisioning is required only if eapFastUsePacs is true, otherwise it must be ignored         | false   |

Continued on next page

Table 31 – continued from previous page

|   |         |    |  |         |
|---|---------|----|--|---------|
| •<br>eapFastUsePacsAllowAuthenProvisioning                          | Boolean | No | The eapFastUsePacsAllowAuthenProvisioning is required only if eapFastUsePacs is true, otherwise it must be ignored   | false   |
| •<br>eapFastUsePacsReturnAccessAcceptAfterAuthenticatedProvisioning | Boolean | No | The eapFastUsePacsReturnAccessAcceptAfterAuthenticatedProvisioning is required only if eapFastUsePacsAllowAuthenProvisioning is true, otherwise it must be ignored | false   |
| •<br>eapFastUsePacsAcceptClientCert                                 | Boolean | No | The eapFastUsePacsAcceptClientCert is required only if eapFastUsePacsAllowAuthenProvisioning is true, otherwise it must be ignored                                 | false   |
| •<br>eapFastUsePacsAllowMachineAuthentication                       | Boolean | No |  | false   |
| •<br>eapFastUsePacsMachinePacTtl                                    | Integer | No | The eapFastUsePacsMachinePacTtl is required only if eapFastUsePacsAllowMachineAuthentication is true, otherwise it must be ignored                                 | 1       |
| •<br>eapFastUsePacsMachinePacTtlUnits                               | Enum    | No | The eapFastUsePacsMachinePacTtlUnits is required only if eapFastUsePacsAllowMachineAuthentication is true, otherwise it must be ignored.                           | SECONDS |

Continued on next page

Table 31 – continued from previous page

|   |         |     |  |         |
|---|---------|-----|--|---------|
| •<br>eapFastUsePacsStatelessSessionResume         | Boolean | No  | The eapFastUsePacsStatelessSessionResume is required only if eapFastUsePacs is true, otherwise it must be ignored                          | false   |
| •<br>eapFastUsePacsAuthorizationPacTtl            | Integer | No  | The eapFastUsePacsAuthorizationPacTtl is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored       | 1       |
| •<br>eapFastUsePacsAuthorizationPacTtlUnits       | Enum    | No  | The eapFastUsePacsAuthorizationPacTtlUnits is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored. | SECONDS |
| •<br>eapFastDontUsePacsAcceptClientCert           | Boolean | No  | The eapFastDontUsePacsAcceptClientCert is required only if eapFastUsePacs is FALSE, otherwise it must be ignored                           | false   |
| •<br>eapFastDontUsePacsAllowMachineAuthentication | Boolean | No  | The eapFastDontUsePacsAllowMachineAuthentication is required only if eapFastUsePacs is FALSE, otherwise it must be ignored                 | false   |
| teap  | List    | No  | The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol      |         |
| •<br>allowTeapEapMsChapV2                         | Boolean | Yes |  | true    |

Continued on next page



Table 31 – continued from previous page

|   |         |     |   |       |
|---|---------|-----|---|-------|
| •<br>allowTeapEapMsChapV2PwdChange        | Boolean | No  | The allowTeapEapMsChapV2PwdChange is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored                            | true  |
| •<br>allowTeapEapMsChapV2PwdChangeRetries | Integer | No  | The allowTeapEapMsChapV2PwdChangeRetries is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3 | 3     |
| •<br>allowTeapEapTls                      | Boolean | Yes |   | true  |
| •<br>allowTeapEapTlsAuthOfExpiredCerts    | Boolean | No  | The allowTeapEapTlsAuthOfExpiredCerts is required only if allowTeapEapTls is true, otherwise it must be ignored                             | false |
| •<br>acceptClientCertDuringTunnelEst      | Boolean | Yes |   | true  |
| •<br>enableEapChaining                    | Boolean | Yes |   | false |
| •<br>allowDowngradeMsk                    | Boolean | Yes |   | false |

**get\_allowed\_protocol\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an allowed protocol by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_allowed_protocol_by_name`*

**`get_allowed_protocol_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an allowed protocol by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_allowed_protocol_by_id`*

```

update_allowed_protocol_by_id(id,    allow_chap=None,    allow_eap_fast=None,    al-
                                low_eap_md5=None,    allow_eap_tls=None,    al-
                                low_eap_ttls=None,    allow_leap=None,    al-
                                low_ms_chap_v1=None,    allow_ms_chap_v2=None,
                                allow_pap_ascii=None,    allow_peap=None,    al-
                                low_preferred_eap_protocol=None,    allow_teap=None,
                                allow_weak_ciphers_for_eap=None,    description=None,
                                eap_fast=None,    eap_tls=None,    eap_tls_l_bit=None,
                                eap_ttls=None,    name=None,    peap=None,    pre-
                                ferred_eap_protocol=None,    process_host_lookup=None,
                                require_message_auth=None,    teap=None,    head-
                                ers=None,    payload=None,    active_validation=True,
                                **query_parameters)

```

This API allows the client to update an allowed protocol.

#### Parameters

- **allow\_chap** (*boolean*) – allowChap, property of the request body.
- **allow\_eap\_fast** (*boolean*) – allowEapFast, property of the request body.
- **allow\_eap\_md5** (*boolean*) – allowEapMd5, property of the request body.
- **allow\_eap\_tls** (*boolean*) – allowEapTls, property of the request body.
- **allow\_eap\_ttls** (*boolean*) – allowEapTtls, property of the request body.
- **allow\_leap** (*boolean*) – allowLeap, property of the request body.
- **allow\_ms\_chap\_v1** (*boolean*) – allowMsChapV1, property of the request body.
- **allow\_ms\_chap\_v2** (*boolean*) – allowMsChapV2, property of the request body.
- **allow\_pap\_ascii** (*boolean*) – allowPapAscii, property of the request body.
- **allow\_peap** (*boolean*) – allowPeap, property of the request body.
- **allow\_preferred\_eap\_protocol** (*boolean*) – allowPreferredEapProtocol, property of the request body.
- **allow\_teap** (*boolean*) – allowTeap, property of the request body.
- **allow\_weak\_ciphers\_for\_eap** (*boolean*) – allowWeakCiphersForEap, property of the request body.
- **description** (*string*) – description, property of the request body.
- **eap\_fast** (*object*) – The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eapFast contains the settings for EAP FAST protocol, property of the request body.
- **eap\_tls** (*object*) – The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol, property of the request body.
- **eap\_tls\_l\_bit** (*boolean*) – eapTlsLBit, property of the request body.
- **eap\_ttls** (*object*) – The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol, property of the request body.
- **id** (*basestring*) – Resource UUID, Mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.

- **peap** (*object*) – peap, property of the request body.
- **preferred\_eap\_protocol** (*string*) – The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored. Allowed Values: EAP\_FAST, PEAP, LEAP, EAP\_MD5, EAP\_TLS, EAP\_TTLS, TEAP, property of the request body.
- **process\_host\_lookup** (*boolean*) – processHostLookup, property of the request body.
- **require\_message\_auth** (*boolean*) – requireMessageAuth, property of the request body.
- **teap** (*object*) – The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, allow_chap=None, allow_eap_fast=None, allow_eap_md5=None,
             allow_eap_tls=None, allow_eap_ttls=None, allow_leap=None, allow_ms_chap_v1=None,
             allow_ms_chap_v2=None, allow_pap_ascii=None, allow_peap=None,
             allow_preferred_eap_protocol=None, allow_teap=None, allow_weak_ciphers_for_eap=None,
             description=None, eap_fast=None, eap_tls=None, eap_tls_l_bit=None, eap_ttls=None,
             name=None, peap=None, preferred_eap_protocol=None, process_host_lookup=None,
             require_message_auth=None, teap=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for `update_allowed_protocol_by_id`

```
delete_allowed_protocol_by_id(id, headers=None, **query_parameters)
```

This API deletes an allowed protocol.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_allowed\_protocol\_by\_id*

**get\_allowed\_protocols** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the allowed protocols.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_allowed\\_protocols\*](#)

**get\_allowed\_protocols\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the allowed protocols.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type

 Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_allowed\\_protocols\\_generator\*](#)

**create\_allowed\_protocol** (*allow\_chap=None, allow\_eap\_fast=None, allow\_eap\_md5=None, allow\_eap\_tls=None, allow\_eap\_ttls=None, allow\_leap=None, allow\_ms\_chap\_v1=None, allow\_ms\_chap\_v2=None, allow\_pap\_ascii=None, allow\_peap=None, allow\_preferred\_eap\_protocol=None, allow\_teap=None, allow\_weak\_ciphers\_for\_eap=None, description=None, eap\_fast=None, eap\_tls=None, eap\_tls\_l\_bit=None, eap\_ttls=None, name=None, peap=None, preferred\_eap\_protocol=None, process\_host\_lookup=None, require\_message\_auth=None, teap=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an allowed protocol.

#### Parameters

- **allow\_chap** (*boolean*) – allowChap, property of the request body.
- **allow\_eap\_fast** (*boolean*) – allowEapFast, property of the request body.
- **allow\_eap\_md5** (*boolean*) – allowEapMd5, property of the request body.

- **allow\_eap\_tls** (*boolean*) – allowEapTls, property of the request body.
- **allow\_eap\_ttls** (*boolean*) – allowEapTtls, property of the request body.
- **allow\_leap** (*boolean*) – allowLeap, property of the request body.
- **allow\_ms\_chap\_v1** (*boolean*) – allowMsChapV1, property of the request body.
- **allow\_ms\_chap\_v2** (*boolean*) – allowMsChapV2, property of the request body.
- **allow\_pap\_ascii** (*boolean*) – allowPapAscii, property of the request body.
- **allow\_peap** (*boolean*) – allowPeap, property of the request body.
- **allow\_preferred\_eap\_protocol** (*boolean*) – allowPreferredEapProtocol, property of the request body.
- **allow\_teap** (*boolean*) – allowTeap, property of the request body.
- **allow\_weak\_ciphers\_for\_eap** (*boolean*) – allowWeakCiphersForEap, property of the request body.
- **description** (*string*) – description, property of the request body.
- **eap\_fast** (*object*) – The eapFast is required only if allowEapFast is true, otherwise it must be ignored. The object eapFast contains the settings for EAP FAST protocol, property of the request body.
- **eap\_tls** (*object*) – The eapTls is required only if allowEapTls is true, otherwise it must be ignored. The object eapTls contains the settings for EAP TLS protocol, property of the request body.
- **eap\_tls\_l\_bit** (*boolean*) – eapTlsLBit, property of the request body.
- **eap\_ttls** (*object*) – The eapTtls is required only if allowEapTtls is true, otherwise it must be ignored. The object eapTtls contains the settings for EAP TTLS protocol, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **peap** (*object*) – peap, property of the request body.
- **preferred\_eap\_protocol** (*string*) – The preferredEapProtocol is required only if allowPreferredEapProtocol is true, otherwise it must be ignored. Allowed Values: EAP\_FAST, PEAP, LEAP, EAP\_MD5, EAP\_TLS, EAP\_TTLS, TEAP, property of the request body.
- **process\_host\_lookup** (*boolean*) – processHostLookup, property of the request body.
- **require\_message\_auth** (*boolean*) – requireMessageAuth, property of the request body.
- **teap** (*object*) – The teap is required only if allowTeap is true, otherwise it must be ignored. The object teap contains the settings for TEAP protocol, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*allow\_chap=None, allow\_eap\_fast=None, allow\_eap\_md5=None, allow\_eap\_tls=None, allow\_eap\_ttls=None, allow\_leap=None, allow\_ms\_chap\_v1=None, allow\_ms\_chap\_v2=None, allow\_pap\_ascii=None, allow\_peap=None, allow\_preferred\_eap\_protocol=None, allow\_teap=None, allow\_weak\_ciphers\_for\_eap=None, description=None, eap\_fast=None, eap\_tls=None, eap\_tls\_l\_bit=None, eap\_ttls=None, name=None, peap=None, preferred\_eap\_protocol=None, process\_host\_lookup=None, require\_message\_auth=None, teap=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_allowed\_protocol*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the allowed protocols.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.



## anc\_policy

### class AncPolicy

Identity Services Engine AncPolicy API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine AncPolicy API and exposes the API as native Python methods that return native Python objects.

Adaptive Network Control (ANC) provides the ability to create network endpoint authorization controls based on ANC policies.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |  |

### Resource Definition

| Attribute   | Type   | Required | Description   | Example Values |
|-------------|--------|----------|---|----------------|
| name        | String | Yes      | Resource Name   |                |
| id          | String | No       | Resource ID   | test           |
| description | String | No       |   |                |
| action      | Enum   | Yes      | <ul style="list-style-type: none"> <li>• <b>QUARANTINE:</b><br/>Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network.</li> <li>• <b>PORTBOUNCE:</b><br/>Resets the port on the network device to which the endpoint is connected</li> <li>• <b>SHUTDOWN</b><br/>: Shuts down the port on the network device to which the endpoint is connected</li> <li>• <b>RE_AUTHENTICATE:</b><br/>Re-authenticates the session from the endpoint</li> </ul> |                |

**get\_anc\_policy\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC policy by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_policy\_by\_name*

**`get_anc_policy_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an ANC policy by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_anc\_policy\_by\_id*

**`update_anc_policy_by_id`** (*id*, *actions=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an ANC policy.

**Parameters**

- **actions** (*list*) – QUARANTINE: Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network. PORTBOUNCE: Resets the port on the network device to which the endpoint is connected. SHUTDOWN : Shuts down the port on the network device to which the endpoint is connected. RE\_AUTHENTICATE: Re-authenticates the session from the endpoint., property of the request body (list of strings. Available values are ‘QUARANTINE’, ‘PORTBOUNCE’, ‘SHUTDOWN’ and ‘RE\_AUTHENTICATE’).
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *actions=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_anc\_policy\_by\_id*

**delete\_anc\_policy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to delete an ANC policy.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_anc\_policy\_by\_id*

**`get_anc_policy`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the ANC policies. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_anc\_policy*

**`get_anc_policy_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the ANC policies. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *`get_anc_policy_generator`*

**`create_anc_policy`** (*actions=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create an ANC policy.

**Parameters**

- **`actions`** (*list*) – QUARANTINE: Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network. PORTBOUNCE: Resets the port on the network device to which the endpoint is connected. SHUTDOWN : Shuts down the port on the network device to which the endpoint is connected. RE\_AUTHENTICATE: Re-authenticates the session from the endpoint., property of the request body (list of strings. Available values are 'QUARANTINE', 'PORTBOUNCE', 'SHUTDOWN' and 'RE\_AUTHENTICATE').
- **`name`** (*string*) – name, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *`RestResponse`*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*actions=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_anc\_policy*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the ANC policy.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_anc\_policy** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response



- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`bulk_request`** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *`bulk_request_for_anc_policy`*

**`monitor_bulk_status_anc_policy`** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**

- **`bulkid`** (*basestring*) – bulkid path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *`monitor_bulk_status_anc_policy`*

## authorization\_profile

### **class AuthorizationProfile**

Identity Services Engine AuthorizationProfile API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine AuthorizationProfile API and exposes the API as native Python methods that return native Python objects.

Authorization Profile API allows the client to add, delete, update, search and perform actions on authorization profiles.

## Revision History

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Ver-<br>sion | Description                               | Revi-<br>sion<br>Mod-<br>ifica-<br>tion | Revision Modification   |
|-------------------------|-------------------------------|------------------------------|---|---|---|
|                         |                               |                              |   | At-<br>tribute                          | Description   |
| 0                       | 1.0                           | 2.2                          | Initial Cisco ISE Version                 |   |   |
| 1                       | 1.1                           | 2.3                          | Support new attributes under common tasks | ac-<br>cessType                         | Added Attribute 'accessType'. Default value:'ACCESS_ACCEPT', additional values: 'ACCESS_REJECT'   |
|                         |                               |                              |   | au-<br>thzPro-<br>file-<br>Type         | Added Attribute 'authzProfileType' to differentiate between types of authorization profiles. Default value:'SWITCH' (used for Standard Authorization Profiles) , additional values:'TACACS', 'TRUSTSEC' |
|                         |                               |                              |   | reauth                                  | Added Attribute 'reauth' to determine reauthentication policy   |
|                         |                               |                              |   | we-<br>bRedi-<br>rec-<br>tion           | Added Attribute 'webRedirection' to support selection of portal redirection   |
|                         |                               |                              |   | acl                                     | Added String Attribute 'acl'  |
|                         |                               |                              |   | track-<br>Move-<br>ment                 | Added Boolean Attribute 'trackMovement'   |

## Resource Definition

| Attribute      | Type    | Required | Description         | Default Values | Example Val-<br>ues |
|----------------|---------|----------|---------------------|----------------|---------------------|
| name           | String  | Yes      | Resource Name       |                | name                |
| id             | String  | No       | Resource UUID value |                | id                  |
| description    | String  | No       |                     |                | description         |
| vlan           | List    | No       |                     |                |                     |
| • nameID       | String  | Yes      |                     |                | vlanName            |
| • tagID        | Integer | Yes      | Valid range is 0-31 |                | 1                   |
| airespaceACL   | String  | No       |                     |                | ACL                 |
| webRedirection | List    | No       |                     |                |                     |

Continued on next page

Table 32 – continued from previous page

|                                      |         |     |  |               |                                  |
|--------------------------------------|---------|-----|--|---------------|----------------------------------|
| • WebRedirectionType                 | String  | Yes | Value MUST be one of the following: CentralizedWebAuth, HotSpot, NativeSupplicantProvisioning, ClientProvisioning. The WebRedirectionType must fit the portalName                |               | CentralizedWebAuth               |
| • acl                                | String  | Yes |  |               | acl                              |
| • portalName                         | String  | Yes | A portal that exist in the DB and fits the WebRedirectionType  |               | Sponsored Guest Portal (default) |
| • staticIPHostNameFQDN               | String  | No  |  |               | 10.56.54.200                     |
| • displayCertificatesRenewalMessages | Boolean | No  | The displayCertificatesRenewalMessages is mandatory when 'WebRedirectionType' value is 'CentralizedWebAuth'. For all other 'WebRedirectionType' values the field must be ignored | true          |                                  |
| accessType                           | Enum    | No  | Allowed Values: ACCESS_ACCEPT, ACCESS_REJECT   | ACCESS_ACCEPT |                                  |
| authzProfileType                     | Enum    | No  | Allowed Values: SWITCH, TRUSTSEC, TACACS   | SWITCH        |                                  |

Continued on next page

Table 32 – continued from previous page

|                                   |         |     |   |       |                         |
|-----------------------------------|---------|-----|---|-------|-------------------------|
|                                   |         |     | SWITCH is used for Standard Authorization Profiles          |       |                         |
| profileName                       | String  | No  |   | Cisco |                         |
| acl                               | String  | No  |   |       | aclfilter               |
| daclName                          | String  | No  |   |       | PERMIT_ALL_IPV4_TRAFFIC |
| autoSmartPort                     | String  | No  |   |       | autoSmartPort           |
| interfaceTemplate                 | String  | No  |   |       | interfaceTemplate       |
| ipv6ACLFILTER                     | String  | No  |   |       | ipv6ACLFILTER           |
| avcProfile                        | String  | No  |   |       | avcProfile              |
| asaVpn                            | String  | No  |   |       | Cisco:cisco-call-type   |
| trackMovement                     | Boolean | No  |   | false |                         |
| serviceTemplate                   | Boolean | No  |   | false |                         |
| easywiredSessionControl           | Boolean | No  |   | false |                         |
| voiceDomainPermission             | Boolean | No  |   | false |                         |
| neat                              | Boolean | No  |   | false |                         |
| webAuth                           | Boolean | No  |   | false |                         |
| macSecPolicy                      | Enum    | No  | Allowed Values: MUST_SECURE, MUST_NOT_SECURE, SHOULD_SECURE |       | MUST_SECURE             |
| reauth                            | List    | No  |   |       |                         |
| • connectivity                    | Enum    | Yes | Allowed Values: DEFAULT, RADIUS_REQUEST                     |       | RADIUS_REQUEST          |
| • timer                           | Integer | Yes | Valid range is 1-65535                                      |       | 1800                    |
| advancedAttributes                | List    | No  |   |       |                         |
| • leftHandSideDictionaryAttribute | List    | Yes | Left side Dictionary and Attribute                          |       |                         |
| • dictionaryName                  | String  | Yes | Dictionary name   |       |                         |
| • attributeName                   | String  | Yes | Attribute name  |       |                         |

Continued on next page

Table 32 – continued from previous page

|                                  |        |     |   |  |                         |
|----------------------------------|--------|-----|---|--|-------------------------|
| •<br>rightHandSideAttributeValue | List   | Yes | Attribute value can be of type AttributeValue or Advanced-DictionaryAttribute. For AttributeValue the value is String, For Advanced-Dictionary-Attribute the value is dictionaryName and attributeName properties |  |                         |
| ipv6DaclName                     | String | No  |   |  | PERMIT_ALL_IPV6_TRAFFIC |
| airespaceIPv6ACLString           | String | No  |   |  | ACL6                    |

**get\_authorization\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an authorization profile by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_authorization\_profile\_by\_name*

**get\_authorization\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an authorization profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_authorization\_profile\_by\_id*

**update\_authorization\_profile\_by\_id** (*id*, *access\_type=None*, *acl=None*, *advanced\_attributes=None*, *agentless\_posture=None*, *airespace\_acl=None*, *airespace\_ipv6\_acl=None*, *asa\_vpn=None*, *authz\_profile\_type=None*, *auto\_smart\_port=None*, *avc\_profile=None*, *dac1\_name=None*, *description=None*, *easy-wired\_session\_candidate=None*, *inter-face\_template=None*, *ipv6\_acl\_filter=None*, *ipv6\_dac1\_name=None*, *mac\_sec\_policy=None*, *name=None*, *neat=None*, *profile\_name=None*, *reauth=None*, *service\_template=None*, *track\_movement=None*, *vlan=None*, *voice\_domain\_permission=None*, *web\_auth=None*, *web\_redirection=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an authorization profile.

### Parameters

- **access\_type** (*string*) – Allowed Values: ACCESS\_ACCEPT, ACCESS\_REJECT, property of the request body.
- **acl** (*string*) – acl, property of the request body.
- **advanced\_attributes** (*list*) – advancedAttributes, property of the request body (list of objects).
- **agentless\_posture** (*boolean*) – agentlessPosture, property of the request body.
- **airespace\_acl** (*string*) – airespaceACL, property of the request body.

- **airespace\_ipv6\_acl** (*string*) – airespaceIPv6ACL, property of the request body.
- **asa\_vpn** (*string*) – asaVpn, property of the request body.
- **authz\_profile\_type** (*string*) – Allowed Values: SWITCH, TRUSTSEC, TACACS SWITCH is used for Standard Authorization Profiles, property of the request body.
- **auto\_smart\_port** (*string*) – autoSmartPort, property of the request body.
- **avc\_profile** (*string*) – avcProfile, property of the request body.
- **dacl\_name** (*string*) – daclName, property of the request body.
- **description** (*string*) – description, property of the request body.
- **easywired\_session\_candidate** (*boolean*) – easywiredSessionCandidate, property of the request body.
- **id** (*basestring*) – Resource UUID value, property of the request body.
- **interface\_template** (*string*) – interfaceTemplate, property of the request body.
- **ipv6\_acl\_filter** (*string*) – ipv6ACLFILTER, property of the request body.
- **ipv6\_dacl\_name** (*string*) – ipv6DaclName, property of the request body.
- **mac\_sec\_policy** (*string*) – Allowed Values: MUST\_SECURE, MUST\_NOT\_SECURE, SHOULD\_SECURE, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **neat** (*boolean*) – neat, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **reauth** (*object*) – reauth, property of the request body.
- **service\_template** (*boolean*) – serviceTemplate, property of the request body.
- **track\_movement** (*boolean*) – trackMovement, property of the request body.
- **vlan** (*object*) – vlan, property of the request body.
- **voice\_domain\_permission** (*boolean*) – voiceDomainPermission, property of the request body.
- **web\_auth** (*boolean*) – webAuth, property of the request body.
- **web\_redirection** (*object*) – webRedirection, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *access\_type=None*, *acl=None*, *advanced\_attributes=None*, *agent-less\_posture=None*, *airespace\_acl=None*, *airespace\_ipv6\_acl=None*, *asa\_vpn=None*, *authz\_profile\_type=None*, *auto\_smart\_port=None*, *avc\_profile=None*, *dacl\_name=None*, *description=None*, *easywired\_session\_candidate=None*, *interface\_template=None*, *ipv6\_acl\_filter=None*, *ipv6\_dacl\_name=None*, *mac\_sec\_policy=None*, *name=None*, *neat=None*, *profile\_name=None*, *reauth=None*, *service\_template=None*, *track\_movement=None*, *vlan=None*, *voice\_domain\_permission=None*, *web\_auth=None*, *web\_redirection=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_authorization_profile_by_id`

**`delete_authorization_profile_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an authorization profile.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `delete_authorization_profile_by_id`



**get\_authorization\_profiles** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all authorization profiles.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_authorization\_profiles*

**get\_authorization\_profiles\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all authorization profiles.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [`get\_authorization\_profiles\_generator`](#)

**create\_authorization\_profile** (*access\_type=None, acl=None, advanced\_attributes=None, agentless\_posture=None, airespace\_acl=None, airespace\_ipv6\_acl=None, asa\_vpn=None, authz\_profile\_type=None, auto\_smart\_port=None, avc\_profile=None, dacl\_name=None, description=None, easywired\_session\_candidate=None, id=None, interface\_template=None, ipv6\_acl\_filter=None, ipv6\_dacl\_name=None, mac\_sec\_policy=None, name=None, neat=None, profile\_name=None, reauth=None, service\_template=None, track\_movement=None, vlan=None, voice\_domain\_permission=None, web\_auth=None, web\_redirection=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an authorization profile.

**Parameters**

- **access\_type** (*string*) – Allowed Values: ACCESS\_ACCEPT, ACCESS\_REJECT, property of the request body.
- **acl** (*string*) – acl, property of the request body.
- **advanced\_attributes** (*list*) – advancedAttributes, property of the request body (list of objects).
- **agentless\_posture** (*boolean*) – agentlessPosture, property of the request body.
- **airespace\_acl** (*string*) – airespaceACL, property of the request body.
- **airespace\_ipv6\_acl** (*string*) – airespaceIPv6ACL, property of the request body.
- **asa\_vpn** (*string*) – asaVpn, property of the request body.
- **authz\_profile\_type** (*string*) – Allowed Values: SWITCH, TRUSTSEC, TACACS SWITCH is used for Standard Authorization Profiles, property of the request body.
- **auto\_smart\_port** (*string*) – autoSmartPort, property of the request body.
- **avc\_profile** (*string*) – avcProfile, property of the request body.
- **dacl\_name** (*string*) – daclName, property of the request body.
- **description** (*string*) – description, property of the request body.
- **easywired\_session\_candidate** (*boolean*) – easywiredSessionCandidate, property of the request body.
- **id** (*string*) – Resource UUID value, property of the request body.
- **interface\_template** (*string*) – interfaceTemplate, property of the request body.
- **ipv6\_acl\_filter** (*string*) – ipv6ACLFILTER, property of the request body.

- **ipv6\_dacl\_name** (*string*) – ipv6DaclName, property of the request body.
- **mac\_sec\_policy** (*string*) – Allowed Values: MUST\_SECURE, MUST\_NOT\_SECURE, SHOULD\_SECURE, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **neat** (*boolean*) – neat, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **reauth** (*object*) – reauth, property of the request body.
- **service\_template** (*boolean*) – serviceTemplate, property of the request body.
- **track\_movement** (*boolean*) – trackMovement, property of the request body.
- **vlan** (*object*) – vlan, property of the request body.
- **voice\_domain\_permission** (*boolean*) – voiceDomainPermission, property of the request body.
- **web\_auth** (*boolean*) – webAuth, property of the request body.
- **web\_redirection** (*object*) – webRedirection, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*access\_type=None, acl=None, advanced\_attributes=None, agentless\_posture=None, airespace\_acl=None, airespace\_ipv6\_acl=None, asa\_vpn=None, authz\_profile\_type=None, auto\_smart\_port=None, avc\_profile=None, dacl\_name=None, description=None, easy-wired\_session\_candidate=None, id=None, interface\_template=None, ipv6\_acl\_filter=None, ipv6\_dacl\_name=None, mac\_sec\_policy=None, name=None, neat=None, profile\_name=None, reauth=None, service\_template=None, track\_movement=None, vlan=None, voice\_domain\_permission=None, web\_auth=None, web\_redirection=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_authorization\_profile*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the authorization profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## byod\_portal

### class ByodPortal

Identity Services Engine BYODPortal API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine BYODPortal API and exposes the API as native Python methods that return native Python objects.

BYOD Portal API provides the ability to Create, Read, Update, Delete and Search BYOD portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute | Type | Required | Description | Default Values | Example Values |
|-----------|------|----------|-------------|----------------|----------------|
|-----------|------|----------|-------------|----------------|----------------|

Continued on next page

Table 33 – continued from previous page

|                  |         |     |   |      |   |
|------------------|---------|-----|---|------|---|
| name             | String  | Yes | Resource Name   |      | BYOD Portal (default)   |
| id               | String  | No  | Resource UUID, mandatory for update   |      | 9a9b910c-54d3-44a4-a3c3-dd007c171599  |
| description      | String  | No  |   |      | Default portal and user experience used when employees register a personal device on the network  |
| portalTestUrl    | String  | No  | URL to bring up a test page for this portal   |      | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portalId=9a9b910c-54d3-44a4-a3c3-dd007c171599">https://{ise-ip}:8443/portal/PortalSetup.action?portalId=9a9b910c-54d3-44a4-a3c3-dd007c171599</a> |
| portalType       | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSORED, GUEST | BYOD |   |
| settings         | List    | No  | Defines all of the settings groups available for a BYOD                               |      |   |
| • portalSettings | List    | No  | The port, interface, certificate, and other basic settings of a portal                |      |   |
| • httpsPort      | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999   |      | 8443  |

Continued on next page

Table 33 – continued from previous page

|                            |         |     |  |      |                                  |
|----------------------------|---------|-----|--|------|----------------------------------|
| •<br>allowedInterfaces     | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 |      | [ "eth0", "bond0" ]              |
| •<br>certificateGroupTag   | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  |      | Default Portal Certificate Group |
| •<br>endpointIdentityGroup | String  | Yes | Unique Id of the endpoint identity group where user's devices will be added. Used only in Hotspot Portal                 |      |                                  |
| •<br>displayLang           | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  |      | USEBROWSERLOCALE                 |
| •<br>fallbackLanguage      | String  | No  | Used when displayLang = USE-BROWSER-LOCALE   |      | English                          |
| •<br>alwaysUsedLanguage    | String  | No  | Used when displayLang = ALWAYSUSE  |      | English                          |
| •<br>byodSettings          | List    | No  | Configuration of BYOD Device Welcome, Registration and Success steps   |      |                                  |
| •<br>byodWelcomeSettings   | List    | No  | Configuration of BYOD endpoint welcome step configuration  |      |                                  |
| •<br>enableBYOD            | Boolean | No  |  | true |                                  |

Continued on next page

Table 33 – continued from previous page

|                            |         |    |   |        |                                      |
|----------------------------|---------|----|---|--------|--------------------------------------|
| • enableGuestAccess        | Boolean | No |   | false  |                                      |
| • requireMDM               | Boolean | No |   | false  |                                      |
| • includeAup               | Boolean | No |   | true   |                                      |
| • aupDisplay               | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ONPAGE |                                      |
| • requireAupAcceptance     | Boolean | No |   | false  |                                      |
| • requireScrolling         | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true                                 | false  |                                      |
| • byodRegistrationSettings | List    | No | Configuration of BYOD endpoint Registration step configuration  |        |                                      |
| • showDeviceID             | Boolean | No | Display Device ID field during registration   | true   |                                      |
| • endPointIdentityGroupId  | String  | No | Identity group id for which endpoint belongs  |        | aa13bb40-8bff-11e6-996c-525400b48521 |

Continued on next page

Table 33 – continued from previous page

|                                      |         |    |   |                 |              |
|--------------------------------------|---------|----|---|-----------------|--------------|
| •<br>byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration  |                 |              |
| •<br>successRedirect                 | Enum    | No | After an Authentication Success where should device be redirected.      | AUTHSUCCESSPAGE |              |
| •<br>redirectUrl                     | String  | No | Target URL for redirection, used when successRedirect = URL             |                 | Redirect URL |
| •<br>supportInfoSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration               |                 |              |
| •<br>includeSupportInfoPage          | Boolean | No |   | false           |              |
| •<br>includeMacAddr                  | Boolean | No |   | false           |              |
| •<br>includeIpAddress                | Boolean | No |   | false           |              |
| •<br>includeBrowserUserAgent         | Boolean | No |   | false           |              |
| •<br>includePolicyServer             | Boolean | No |   | false           |              |
| •<br>includeFailureCode              | Boolean | No |   | false           |              |
| •<br>emptyFieldDisplay               | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |                 | HIDE         |

Continued on next page



Table 33 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available for a BYOD   |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 33 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 33 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | BYOD Portal                    |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 33 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_byod\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a BYOD portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_byod\_portal\_by\_id*

**update\_byod\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a BYOD portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available for a BYOD, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – Resource UUID, mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **id** – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, customizations=None, description=None, name=None, portal_test_url=None,
             portal_type=None, settings=None, headers=None, payload=None, ac-
             tive_validation=True, **query_parameters)
```

Alias for `update_byod_portal_by_id`

```
delete_byod_portal_by_id(id, headers=None, **query_parameters)
```

This API deletes a BYOD portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter. Portal id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_byod\_portal\_by\_id*

**get\_byod\_portal** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the BYOD portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_byod\_portal*

**`get_byod_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the BYOD portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_byod\_portal\_generator*

**create\_byod\_portal** (*customizations=None, description=None, id=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a BYOD portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available for a BYOD, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – Resource UUID, mandatory for update, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, id=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_byod\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the BYOD portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## backup\_and\_restore

### class BackupAndRestore

Identity Services Engine Backup And Restore API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Backup And Restore API and exposes the API as native Python methods that return native Python objects.

**config\_backup** (*backup\_encryption\_key=None, backup\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers on demand configuration backup on the ISE node. The API returns the task ID. Use the Task Service status API to get the status of the backup job.

#### Parameters

- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CcliSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**config** (*backup\_encryption\_key=None, backup\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *config\_backup*

**cancel\_backup** (*headers=None, \*\*query\_parameters*)

Cancels the backup job running on the node.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**cancel** (*headers=None, \*\*query\_parameters*)

Alias for *cancel\_backup*

**get\_last\_config\_backup\_status** (*headers=None, \*\*query\_parameters*)

Gives the last backup status.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_last\_status** (*headers=None, \*\*query\_parameters*)

Alias for *get\_last\_config\_backup\_status*

```
restore_config_backup (backup_encryption_key=None, repository_name=None, re-  
store_file=None, restore_include_adeos=None, headers=None,  
payload=None, active_validation=True, **query_parameters)
```

Triggers a configuration DB restore job on the ISE node. The API returns the task ID. Use the Task Service status API to get the status of the backup job.

#### Parameters

- **backup\_encryption\_key** (*string*) – The encryption key which was provided at the time of taking backup., property of the request body.
- **repository\_name** (*string*) – Name of the configed repository where the backup file exists., property of the request body.
- **restore\_file** (*string*) – Name of the backup file to be restored on ISE node., property of the request body.
- **restore\_include\_adeos** (*string*) – Determines whether the ADE-OS configure is restored. Possible values true, false, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
restore (backup_encryption_key=None, repository_name=None, restore_file=None, re-  
store_include_adeos=None, headers=None, payload=None, active_validation=True,  
**query_parameters)
```

Alias for *restore\_config\_backup*

```
update_scheduled_config_backup (backup_description=None, backup_encryption_key=None,  
backup_name=None, end_date=None, frequency=None,  
month_day=None, repository_name=None,  
start_date=None, status=None, time=None,  
week_day=None, headers=None, payload=None, ac-  
tive_validation=True, **query_parameters)
```

Update the Schedule of the configuration backup on the ISE node as per the input parameters. This API only helps in editing the schedule.

## Parameters

- **backup\_description** (*string*) – Description of the backup., property of the request body.
- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CeliSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **end\_date** (*string*) – End date of the scheduled backup job. Allowed format MM/DD/YYYY. End date is not required in case of ONE\_TIME frequency., property of the request body.
- **frequency** (*string*) – frequency, property of the request body. Available values are 'DAILY', 'MONTHLY', 'ONCE' and 'WEEKLY'.
- **month\_day** (*string*) – Day of month you want backup to be performed on when scheduled frequency is MONTHLY. Allowed values from 1 to 28., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **start\_date** (*string*) – Start date for scheduling the backup job. Allowed format MM/DD/YYYY., property of the request body.
- **status** (*string*) – status, property of the request body. Available values are 'DISABLE' and 'ENABLE'.
- **time** (*string*) – Time at which backup job get scheduled. example 12:00 AM, property of the request body.
- **week\_day** (*string*) – weekDay, property of the request body. Available values are 'FRI', 'MON', 'SAT', 'SUN', 'THU', 'TUE' and 'WED'.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for `update_scheduled_config_backup`

**create\_scheduled\_config\_backup** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Schedules the configuration backup on the ISE node as per the input parameters. This API helps in creating the schedule for the first time.

#### Parameters

- **backup\_description** (*string*) – Description of the backup., property of the request body.
- **backup\_encryption\_key** (*string*) – The encryption key for the backed up file. Encryption key must satisfy the following criteria Contains at least one uppercase letter [A-Z], Contains at least one lowercase letter [a-z], Contains at least one digit [0-9], Contain only [A-Z][a-z][0-9]\_#, Has at least 8 characters, Has not more than 15 characters, Must not contain 'CcLiSsCco', Must not begin with, property of the request body.
- **backup\_name** (*string*) – The backup file will get saved with this name., property of the request body.
- **end\_date** (*string*) – End date of the scheduled backup job. Allowed format MM/DD/YYYY. End date is not required in case of ONE\_TIME frequency., property of the request body.
- **frequency** (*string*) – frequency, property of the request body. Available values are 'DAILY', 'MONTHLY', 'ONCE' and 'WEEKLY'.
- **month\_day** (*string*) – Day of month you want backup to be performed on when scheduled frequency is MONTHLY. Allowed values from 1 to 28., property of the request body.
- **repository\_name** (*string*) – Name of the configured repository where the generated backup file will get copied., property of the request body.
- **start\_date** (*string*) – Start date for scheduling the backup job. Allowed format MM/DD/YYYY., property of the request body.
- **status** (*string*) – status, property of the request body. Available values are 'DISABLE' and 'ENABLE'.
- **time** (*string*) – Time at which backup job get scheduled. example 12:00 AM, property of the request body.
- **week\_day** (*string*) – weekDay, property of the request body. Available values are 'FRI', 'MON', 'SAT', 'SUN', 'THU', 'TUE' and 'WED'.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*backup\_description=None, backup\_encryption\_key=None, backup\_name=None, end\_date=None, frequency=None, month\_day=None, repository\_name=None, start\_date=None, status=None, time=None, week\_day=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_scheduled\_config\_backup*

## certificate\_profile

### class CertificateProfile

Identity Services Engine CertificateProfile API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine CertificateProfile API and exposes the API as native Python methods that return native Python objects.

The certificate profile API allows the client to add, search and perform actions on the certificate profiles.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |  |

#### Resource Definition

| Attribute                    | Type    | Required | Description   | Default Values   | Example Values                       |
|------------------------------|---------|----------|---|------------------|--------------------------------------|
| name                         | String  | Yes      | Resource Name   |                  | Certificate_Profile                  |
| id                           | String  | No       | Resource UUID   |                  | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| description                  | String  | No       |   |                  |                                      |
| allowedAsUserName            | Boolean | No       | To be set true or false   | false            |                                      |
| external-identity-store-name | String  | No       | Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen   | [not applicable] | [not applicable]                     |
| certificate-attribute-name   | ENUM    | No       | Attribute name of the Certificate Profile - used only when CERTIFICATE is chosen in usernameFrom. Allowed values: - SUBJECT_COMMON_NAME - SUBJECT_ALTERNATIVE_NAME - SUBJECT_SERIAL_NUMBER - SUBJECT - SUBJECT_ALTERNATIVE_NAME_OTHER_NAME - SUBJECT_ALTERNATIVE_NAME_EMAIL - SUBJECT_ALTERNATIVE_NAME_DNS. - Additional internal value ALL_SUBJECT_AND_ALTERNATIVE_NAMES is used automatically when usernameFrom=UPN | SUBJECT          | COMMON_NAME                          |
| match-Mode                   | ENUM    | No       | Match mode of the Certificate Profile. Allowed values: NEVER, RESOLVE_IDENTITY_AMBIGUITY, BINARY_COMPARISON   | NEVER            |                                      |
| username-From                | ENUM    | No       | The attribute in the certificate where the user name should be taken from.  | CERTIFICATE      |                                      |

**get\_certificate\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate profile by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile\_by\_name*

**`get_certificate_profile_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate profile by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile\_by\_id*

```
update_certificate_profile_by_id(id, allowed_as_user_name=None, certificate_attribute_name=None, description=None, external_identity_store_name=None, match_mode=None, name=None, username_from=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a certificate profile.

#### Parameters

- **allowed\_as\_user\_name** (*boolean*) – allowedAsUserName, property of the request body.
- **certificate\_attribute\_name** (*string*) – Attribute name of the Certificate Profile used only when CERTIFICATE is chosen in usernameFrom. Allowed values: SUBJECT\_COMMON\_NAME SUBJECT\_ALTERNATIVE\_NAME SUBJECT\_SERIAL\_NUMBER SUBJECT\_ALTERNATIVE\_NAME\_OTHER\_NAME SUBJECT\_ALTERNATIVE\_NAME\_EMAIL SUBJECT\_ALTERNATIVE\_NAME\_DNS. Additional internal value ALL\_SUBJECT\_AND\_ALTERNATIVE\_NAMES is used automatically when usernameFrom=UPN, property of the request body.
- **description** (*string*) – description, property of the request body.
- **external\_identity\_store\_name** (*string*) – Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **match\_mode** (*string*) – Match mode of the Certificate Profile. Allowed values: NEVER RESOLVE\_IDENTITY\_AMBIGUITY BINARY\_COMPARISON, property of the request body.
- **name** (*string*) – name, property of the request body.
- **username\_from** (*string*) – The attribute in the certificate where the user name should be taken from. Allowed values: CERTIFICATE (for a specific attribute as defined in certificateAttributeName) UPN (for using any Subject or Alternative Name Attributes in the Certificate an option only in AD), property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *allowed\_as\_user\_name=None*, *certificate\_attribute\_name=None*, *description=None*, *external\_identity\_store\_name=None*, *match\_mode=None*, *name=None*, *username\_from=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_certificate\_profile\_by\_id*

**get\_certificate\_profile** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the certificate profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_profile*

**get\_certificate\_profile\_generator** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the certificate profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_certificate\_profile\_generator*

**create\_certificate\_profile** (*allowed\_as\_user\_name=None, certificate\_attribute\_name=None, description=None, external\_identity\_store\_name=None, id=None, match\_mode=None, name=None, username\_from=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a certificate profile.

### Parameters

- **allowed\_as\_user\_name** (*boolean*) – allowedAsUserName, property of the request body.
- **certificate\_attribute\_name** (*string*) – Attribute name of the Certificate Profile used only when CERTIFICATE is chosen in usernameFrom. Allowed values: SUBJECT\_COMMON\_NAME SUBJECT\_ALTERNATIVE\_NAME SUBJECT\_SERIAL\_NUMBER SUBJECT SUBJECT\_ALTERNATIVE\_NAME\_OTHER\_NAME SUBJECT\_ALTERNATIVE\_NAME\_EMAIL SUBJECT\_ALTERNATIVE\_NAME\_DNS. Additional internal value ALL\_SUBJECT\_AND\_ALTERNATIVE\_NAMES is used automatically when usernameFrom=UPN, property of the request body.
- **description** (*string*) – description, property of the request body.
- **external\_identity\_store\_name** (*string*) – Referred IDStore name for the Certificate Profile or [not applicable] in case no identity store is chosen, property of the request body.
- **id** (*string*) – id, property of the request body.
- **match\_mode** (*string*) – Match mode of the Certificate Profile. Allowed values: NEVER RESOLVE\_IDENTITY\_AMBIGUITY BINARY\_COMPARISON, property of the request body.
- **name** (*string*) – name, property of the request body.

- **username\_from** (*string*) – The attribute in the certificate where the user name should be taken from. Allowed values: CERTIFICATE (for a specific attribute as defined in certificateAttributeName) UPN (for using any Subject or Alternative Name Attributes in the Certificate an option only in AD), property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*allowed\_as\_user\_name=None, certificate\_attribute\_name=None, description=None, external\_identity\_store\_name=None, id=None, match\_mode=None, name=None, username\_from=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_certificate\_profile*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the certificate profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**certificate\_template****class CertificateTemplate**

Identity Services Engine CertificateTemplate API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine CertificateTemplate API and exposes the API as native Python methods that return native Python objects.

The certificate template API provides the ability to search for certificate templates.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |
|------------|------------------|-------------------|---------------------------|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |

**Resource Definition**

| Attribute          | Type         | Re-quired | Description   | Example Values                       |
|--------------------|--------------|-----------|---|--------------------------------------|
| name               | String       | Yes       | Resource Name   |                                      |
| id                 | String       | No        | Resource UUID   | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| descrip-<br>tion   | String       | No        |   |                                      |
| raProfile-<br>Name | String       | Yes       | RA profile for the Certificate template                               | ISE internal CA                      |
| keySize            | Inte-<br>ger | No        | Key Size of the Certificate Template                                  | 2048 1024                            |
| validity           | Inte-<br>ger | No        | Validity period of the Certificate Template:<br>Valid Range 21 - 3652 | 730                                  |

**get\_certificate\_template\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate template by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_template\_by\_name*

**`get_certificate_template_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a certificate template by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_certificate\_template\_by\_id*

**`get_certificate_template`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get aall the certificate templates.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_certificate\_template*

**get\_certificate\_template\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get aall the certificate templates.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.



- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_certificate\_template\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the certificate template.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## certificates

### class Certificates

Identity Services Engine Certificates API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Certificates API and exposes the API as native Python methods that return native Python objects.

**get\_csrs** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject timeStamp Supported Date Format: yyyy-MM-dd HH:mm:ss.SSS Supported Operators: EQ, NEQ, GT and LT .

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_csrs\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject timeStamp Supported Date Format: yyyy-MM-dd HH:mm:ss.SSS Supported Operators: EQ, NEQ, GT and LT .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data

model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**generate\_csr** (*allow\_wild\_card\_cert=None, certificate\_policies=None, digest\_type=None, hostnames=None, key\_length=None, key\_type=None, portal\_group\_tag=None, san\_dir=None, san\_dns=None, san\_ip=None, san\_uri=None, subject\_city=None, subject\_common\_name=None, subject\_country=None, subject\_org=None, subject\_org\_unit=None, subject\_state=None, used\_for=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Generate a certificate signing request for Multi-Use, Admin, EAP Authentication, RADIUS DTLS, Px-Grid, SAML, Portal and IMS Services. Following parameters are present in POST request body  
 PARAMETER DESCRIPTION  
 EXAMPLE hostnames List of Cisco ISE node hostnames for which CSRs should be generated  
 “hostnames”: [“ise-host1”, “ise-host2”]  
 allowWildCardCert Allow use of WildCards in certificates  
 “allowWildCardCert”: false  
 keyLength \* required Length of the key used for CSR generation (required).  
 “keyLength”: “512”  
 keyType \* required Type of key used for CSR generation either RSA or ECDSA (required).  
 “keyType”: “RSA”  
 digestType \* required Hash algorithm used for signing CSR (required).  
 “digestType”: “SHA-256”  
 usedFor \* required Certificate usage (required).  
 “usedFor”: “MULTI-USE”  
 certificatePolicies Certificate policy OID or list of OIDs that the certificate should conform to. Use comma or space to separate the OIDs.  
 “certificatePolicies”: “Certificate Policies”  
 subjectCommonName \* required Certificate common name (CN) (required).  
 “subjectCommonName”: “\$FQDN\$”  
 subjectOrgUnit Certificate organizational unit (OU).  
 “subjectOrgUnit”: “Engineering”  
 subjectOrg Certificate organization (O).  
 “subjectOrg”: “Cisco”  
 subjectCity Certificate city or locality (L).  
 “subjectCity”: “San Jose”  
 subjectState Certificate state (ST).  
 “subjectState”: “California”  
 subjectCountry Certificate country (C).  
 “subjectCountry”: “US”  
 sanDNS Array of SAN (Subject Alternative Name) DNS entries (optional).  
 “sanDNS”: [“ise.example.com”]  
 sanIP Array of SAN IP entries (optional).  
 “sanIP”: [“1.1.1.1”]  
 sanURI Array of SAN URI entries (optional).  
 “sanURI”: [“https://1.1.1.1”]  
 sanDir Array of SAN DIR entries (optional).

“sanDir”: [“CN=AAA,DC=COM,C=IL”] portalGroupTag Portal Group Tag when using certificate for PORTAL service “portalGroupTag”: “Default Portal Certificate Group” NOTE: For allowWildCardCert to be false, the below mentioned parameter is mandatory: hostnames When certificate is selected to be used for Portal Service, the below mentioned parameter is mandatory: portalGroupTag .

### Parameters

- **allow\_wild\_card\_cert** (*boolean*) – allowWildCardCert, property of the request body.
- **certificate\_policies** (*string*) – certificatePolicies, property of the request body.
- **digest\_type** (*string*) – digestType, property of the request body. Available values are ‘SHA-256’, ‘SHA-384’ and ‘SHA-512’.
- **hostnames** (*list*) – hostnames, property of the request body (list of strings).
- **key\_length** (*string*) – keyLength, property of the request body. Available values are ‘1024’, ‘2048’, ‘4096’ and ‘512’.
- **key\_type** (*string*) – keyType, property of the request body. Available values are ‘ECDSA’ and ‘RSA’.
- **portal\_group\_tag** (*string*) – portalGroupTag, property of the request body.
- **san\_dns** (*list*) – sanDNS, property of the request body (list of strings).
- **san\_dir** (*list*) – sanDir, property of the request body (list of strings).
- **san\_ip** (*list*) – sanIP, property of the request body (list of strings).
- **san\_uri** (*list*) – sanURI, property of the request body (list of strings).
- **subject\_city** (*string*) – subjectCity, property of the request body.
- **subject\_common\_name** (*string*) – subjectCommonName, property of the request body.
- **subject\_country** (*string*) – subjectCountry, property of the request body.
- **subject\_org** (*string*) – subjectOrg, property of the request body.
- **subject\_org\_unit** (*string*) – subjectOrgUnit, property of the request body.
- **subject\_state** (*string*) – subjectState, property of the request body.
- **used\_for** (*string*) – usedFor, property of the request body. Available values are ‘ADMIN’, ‘DTLS- AUTH’, ‘EAP-AUTH’, ‘IMS’, ‘MULTI-USE’, ‘PORTAL’, ‘PXGRID’ and ‘SAML’.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**export\_csr** (*hostname*, *id*, *dirpath=None*, *save\_file=None*, *filename=None*, *headers=None*, *\*\*query\_parameters*)

Response of this API carries a CSR corresponding to the requested ID.

**Parameters**

- **`hostname`** (*basestring*) – hostname path parameter. Hostname to which the CSR belongs.
- **`id`** (*basestring*) – id path parameter. ID of the CSR to be exported.
- **`dirpath`** (*basestring*) – Directory absolute path. Defaults to `os.getcwd()`.
- **`save_file`** (*bool*) – Enable or disable automatic file creation of raw response.
- **`filename`** (*basestring*) – The filename used to save the download file.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

The `DownloadResponse` wrapper. Wraps the `urllib3.response.HTTPResponse`. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.
- **`DownloadFailure`** – If was not able to download the raw
- **`response to a file.`** –

**generate\_intermediate\_ca\_csr** (*headers=None*, *\*\*query\_parameters*)

CSR Generation for Intermediate Certificates.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_csr_by_id`** (*host\_name, id, headers=None, \*\*query\_parameters*)

This API displays details of a Certificate Signing Request of a particular node for given HostName and ID.

**Parameters**

- **`host_name`** (*basestring*) – hostName path parameter. Name of the host of which CSR's should be returned.
- **`id`** (*basestring*) – id path parameter. ID of the Certificate Signing Request returned.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_csr_by_id`** (*host\_name, id, headers=None, \*\*query\_parameters*)

This API deletes a Certificate Signing Request of a particular node based on given HostName and ID.

**Parameters**

- **`host_name`** (*basestring*) – hostName path parameter. Name of the host of which CSR's should be deleted.

- **id** (*basestring*) – id path parameter. ID of the Certificate Signing Request to be deleted.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**regenerate\_ise\_root\_ca** (*remove\_existing\_ise\_intermediate\_csr=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API initiates regeneration of Cisco ISE root CA certificate chain. Response contains ID which can be used to track the status. Setting “removeExistingISEIntermediateCSR” to true removes existing Cisco ISE Intermediate CSR.

#### Parameters

- **remove\_existing\_ise\_intermediate\_csr** (*boolean*) – Setting this attribute to true removes existing Cisco ISE Intermediate CSR, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**renew\_certificates** (*cert\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API initiates regeneration of certificates. Response contains ID which can be used to track the status.

#### Parameters

- **cert\_type** (*string*) – certType, property of the request body. Available values are ‘IMS’ and ‘OCSP’.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bind\_csr** (*admin=None, allow\_extended\_validity=None, allow\_out\_of\_date\_cert=None, allow\_replacement\_of\_certificates=None, allow\_replacement\_of\_portal\_group\_tag=None, data=None, eap=None, host\_name=None, id=None, ims=None, name=None, portal=None, portal\_group\_tag=None, pxgrid=None, radius=None, saml=None, validate\_certificate\_extensions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

**Bind CA Signed Certificate.** **NOTE: This API requires an** existing Certificate Signing Request, and the root certificate must already be trusted. **NOTE:** The certificate may have a validity period longer than 398 days. It may be untrusted by many browsers. **NOTE:** Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following parameters are used in POST body  
PARAMETER DESCRIPTION EXAMPLE name Friendly name of the certificate. “name”: “CA Signed Certificate” data \* required Plain-text contents of the certificate file. Every space needs to be replaced with newline escape sequence (

) (required). Use **awk ‘NF {sub(/**

**/, “”); printf “%sn”, \$0;}’ <<your .pem file>>** to extract data from certificate file. “data”: “Plain-text contents of the certificate file.” allowExtendedValidity \* required Allow the certificates greater than



validity of 398 days (required). “allowExtendedValidity”: true allowOutOfDateCert \* required Allow out of date certificates (required). SECURITY ALERT: It is recommended to use “allowOutOfDateCert”: false to avoid binding of expired certificates (not Secure). “allowOutOfDateCert”: true allowReplacementOfCertificates \* required Allow Replacement of certificates (required). “allowReplacementOfCertificates”: true allowReplacementOfPortalGroupTag \* required Allow Replacement of Portal Group Tag (required). “allowReplacementOfPortalGroupTag”: true admin Use certificate to authenticate the Cisco ISE Admin Portal “admin”: false eap Use certificate for EAP protocols that use SSL/TLS tunneling “eap”: false radius Use certificate for RADSec server “radius”: false pxgrid Use certificate for the pxGrid Controller “pxgrid”: false ims Use certificate for the Cisco ISE Messaging Service “ims”: false saml Use certificate for SAML Signing “saml”: false portal Use certificate for portal “portal”: false portalGroupTag Portal Group Tag for using certificate with portal role “portalGroupTag”: “Default Portal Certificate Group” validateCertificateExtensions Validate Certificate Extensions “validateCertificateExtensions”: false Following roles can be used in any combinations ROLE DEFAULT WARNING Admin False Enabling Admin role for this certificate causes an application server restart on the selected node. Note: Make sure required Certificate Chain is imported under Trusted Certificates EAP Authentication False Only one system certificate can be used for EAP. Assigning EAP to this certificate removes the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates RADIUS DTLS False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate removes the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates SAML False SAML cannot be used with other Usage. Enabling SAML unchecks all other Usage. Note: Make sure required Certificate Chain is imported under Trusted Certificates .

#### Args:

**admin(boolean):** Use certificate to authenticate the Cisco ISE Admin Portal, property of the request body.

**allow\_extended\_validity(boolean):** Allow import of certificates with validity greater than 398 days (required), property of the request body.

**allow\_out\_of\_date\_cert(boolean):** Allow out of date certificates (required), property of the request body.

**allow\_replacement\_of\_certificates(boolean):** Allow Replacement of certificates (required), property of the request body.

**allow\_replacement\_of\_portal\_group\_tag(boolean):** Allow Replacement of Portal Group Tag (required), property of the request body.

**data(string):** Signed certificate data (required), property of the request body.

**eap(boolean):** Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.

**host\_name(string):** Name of Host whose CSR ID has been provided (required), property of the request body.

**id(string):** ID of the generated CSR (required), property of the request body.

**ims(boolean):** Use certificate for the Cisco ISE Messaging Service, property of the request body.

**name(string):** Friendly Name of the certificate, property of the request body.

**portal(boolean):** Use for portal, property of the request body.

**portal\_group\_tag(string):** Set Group tag, property of the request body.

**pxgrid(boolean):** Use certificate for the pxGrid Controller, property of the request body.

**radius(boolean):** Use certificate for the RADSec server, property of the request body.

**saml(boolean):** Use certificate for SAML Signing, property of the request body.

**validate\_certificate\_extensions(boolean):** Validate Certificate Extensions, property of the request body.

**headers(dict):** Dictionary of HTTP Headers to send with the Request .

**payload(dict):** A JSON serializable Python object to send in the body of the Request.

**active\_validation(bool):** Enable/Disable payload validation. Defaults to True.

**\*\*query\_parameters:** Additional query parameters (provides support for parameters that may be added in the future).

Returns:

RestResponse: REST response with following properties:

- **headers(MyDict):** response headers.
- **response(MyDict):** response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes):** representation of the request's response
- **text(str):** representation of the request's response

**Raises:** TypeError: If the parameter types are incorrect. MalformedRequest: If the request body created is invalid. ApiError: If the Identity Services Engine cloud returns an error.

```
export_system_certificate (export=None, id=None, password=None, dirpath=None,  
                             save_file=None, filename=None, headers=None, payload=None,  
                             active_validation=True, **query_parameters)
```

Export System Certificate. Following parameters are used in POST body  
PARAMETER DESCRIPTION  
EXAMPLE id \* required ID of a System Certificate (required). "id": "CERT-ID"  
export One of the below option is required "CERTIFICATE" : Export only certificate without private key "CERTIFICATE\_WITH\_PRIVATE\_KEY" : Export both certificate and private key ("certificatePassword" is required). "export": "CERTIFICATE\_WITH\_PRIVATE\_KEY" password \* required Certificate password (required if "export" : CERTIFICATE\_WITH\_PRIVATE\_KEY ). Password constraints: Alphanumeric Minimum of 8 Characters Maximum of 100 Characters "password": "certificate password" NOTE: The response of this API carries a ZIP file containing the certificate and private key if "export" : "CERTIFICATE\_WITH\_PRIVATE\_KEY" in the request. If "export" : "CERTIFICATE" in request body, the response carries a ZIP file containing only the certificate. WARNING: Exporting a private key is not a secure operation. It could lead to possible exposure of the private key. .

#### Parameters

- **export (string)** – export, property of the request body. Available values are 'CERTIFICATE' and 'CERTIFICATE\_WITH\_PRIVATE\_KEY'.
- **id (string)** – id, property of the request body.
- **password (string)** – password, property of the request body.
- **dirpath (basestring)** – Directory absolute path. Defaults to os.getcwd().
- **save\_file (bool)** – Enable or disable automatic file creation of raw response.
- **filename (basestring)** – The filename used to save the download file.
- **headers (dict)** – Dictionary of HTTP Headers to send with the Request .
- **payload (dict)** – A JSON serializable Python object to send in the body of the Request.
- **active\_validation (bool)** – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

```
generate_self_signed_certificate (admin=None, allow_extended_validity=None, allow_portal_tag_transfer_for_same_subject=None, allow_replacement_of_certificates=None, allow_replacement_of_portal_group_tag=None, allow_role_transfer_for_same_subject=None, allow_san_dns_bad_name=None, allow_san_dns_non_resolvable=None, allow_wild_card_certificates=None, certificate_policies=None, digest_type=None, eap=None, expiration_ttl=None, expiration_ttl_unit=None, host_name=None, key_length=None, key_type=None, name=None, portal=None, portal_group_tag=None, pxgrid=None, radius=None, saml=None, san_dns=None, san_ip=None, san_uri=None, subject_city=None, subject_common_name=None, subject_country=None, subject_org=None, subject_org_unit=None, subject_state=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Generate Self-signed Certificate NOTE: The certificate may have a validity period longer than 398 days. It may be untrusted by many browsers. NOTE: Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. NOTE: Wildcard certificate and SAML certificate can be generated only on PPA or Standalone Following parameters are used in POST body PARAMETER DESCRIPTION EXAMPLE hostName \* required Hostname or FQDN of the node in which certificate needs to be created (required). "hostName": "ise-node-001" name Friendly name of the certificate. "name": "Self-signed System Certificate" subjectCommonName Certificate common name (CN) NOTE: 1. CN is Mandatory if SAN not configured. 2. Subject can contain a multi- valued CN. For multi-valued RDNs, follow the format "CN=value1, CN=value2" "subjectCommonName": "\$FQDN\$" subjectOrgUnit Certificate organizational unit (OU) NOTE: Subject can contain a multi-valued OU. For multi- valued RDNs, follow the format "OU=value1, OU=value2" "subjectOrgUnit": "Engineering" subjectOrg Certificate organization (O) NOTE: Subject can contain a multi-valued O fields. For multi-valued RDNs, follow the format "O=value1, O=value2" "subjectOrg": "Cisco" subjectCity Certificate city or locality (L) "subjectCity": "San Jose" subjectState Certificate state (ST) "subjectState": "California" subjectCountry Certificate country (C) "subjectCountry": "US" sanDNS Array of SAN (Subject Alternative Name) DNS entries "sanDNS": ["ise.example.com"] sanIP Array of SAN IP entries "sanIP": ["1.1.1.1"] sanURI Array of SAN URI entries "sanURI": ["https://1.1.1.1"] keyType \* required Algorithm to use for certificate public key creation (required). "keyType": "RSA" keyLength \* required Bit size of the public

key (required). “keyLength”: “4096” digestType \* required Digest to sign with (required). “digestType”: “SHA-384” certificatePolicies Certificate policy OID or list of OIDs that the certificate should conform to. Use comma or space to separate the OIDs. “certificatePolicies”: “Certificate Policies” expirationTTL \* required Certificate expiration value (required). NOTE: Expiration TTL should be within Unix time limit “expirationTTL”: 2 expirationTTLUnit \* required Certificate expiration unit (required). “expirationTTLUnit”: “years” admin Use certificate to authenticate the Cisco ISE Admin Portal “admin”: false eap Use certificate for EAP protocols that use SSL/TLS tunneling “eap”: false radius Use certificate for RADSec server “radius”: false pxgrid Use certificate for the pxGrid Controller “pxgrid”: false saml Use certificate for SAML Signing “saml”: false portal Use certificate for portal “portal”: false portalGroupTag Portal Group Tag for using certificate with portal role “portalGroupTag”: “Default Portal Certificate Group” allowReplacementOfPortalGroupTag \* required Allow Replacement of Portal Group Tag (required). “allowReplacementOfPortalGroupTag”: true allowWildcardCertificates Allow use of WildCards in certificates “allowWildcardCertificates”: false allowReplacementOfCertificates \* required Allow replacement of certificates (required). “allowReplacementOfCertificates”: true allowExtendedValidity \* required Allow generation of self-signed certificate with validity greater than 398 days (required). “allowExtendedValidity”: true allowRoleTransferForSameSubject \* required Allow the transfer of roles to certificates with same subject (required). If the matching certificate on Cisco ISE has either admin or portal role and if request has admin or portal role selected along with allowRoleTransferForSameSubject parameter as true, self- signed certificate would be generated with both admin and portal role enabled “allowRoleTransferForSameSubject”: true allowPortalTagTransferForSameSubject \* required Acquire the group tag of the matching certificate (required). If the request portal group tag is different from the group tag of matching certificate (If matching certificate in Cisco ISE has portal role enabled), self- signed certificate would be generated by acquiring the group tag of matching certificate if allowPortalTagTransferForSameSubject parameter is true “allowPortalTagTransferForSameSubject”: true allowSanDnsBadName \* required Allow generation of self-signed certificate with bad Common Name & SAN Values [like “example.org.”,”invalid.”,”test.”,”localhost” ,etc.] (required). SECURITY ALERT: It is recommended to use “allowSanDnsBadName”: false to avoid generation of certificates with bad Common Name & SAN Values which are not secure “allowSanDnsBadName”: true allowSanDnsNonResolvable \* required Allow generation of self-signed certificate with non resolvable Common Name or SAN Values (required). “allowSanDnsNonResolvable”: true ROLE DEFAULT WARNING Admin False Enabling Admin role for this certificate causes an application server restart on the selected node. EAP Authentication False Only one system certificate can be used for EAP. Assigning EAP to this certificate removes the assignment from another certificate. RADIUS DTLS False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate removes the assignment from another certificate. SAML False SAML cannot be used with other Usage. .

### Parameters

- **admin** (*boolean*) – Use certificate to authenticate the Cisco ISE Admin Portal, property of the request body.
- **allow\_extended\_validity** (*boolean*) – Allow generation of self-signed certificate with validity greater than 398 days, property of the request body.
- **allow\_portal\_tag\_transfer\_for\_same\_subject** (*boolean*) – Allow overwriting the portal tag from matching certificate of same subject, property of the request body.
- **allow\_replacement\_of\_certificates** (*boolean*) – Allow Replacement of certificates, property of the request body.
- **allow\_replacement\_of\_portal\_group\_tag** (*boolean*) – Allow Replacement of Portal Group Tag, property of the request body.
- **allow\_role\_transfer\_for\_same\_subject** (*boolean*) – Allow transfer of roles for certificate with matching subject, property of the request body.
- **allow\_san\_dns\_bad\_name** (*boolean*) – Allow usage of SAN DNS Bad name,

property of the request body.

- **allow\_san\_dns\_non\_resolvable** (*boolean*) – Allow use of non resolvable Common Name or SAN Values, property of the request body.
- **allow\_wild\_card\_certificates** (*boolean*) – Allow Wildcard Certificates, property of the request body.
- **certificate\_policies** (*string*) – Certificate Policies, property of the request body.
- **digest\_type** (*string*) – Digest to sign with, property of the request body. Available values are ‘SHA-256’, ‘SHA-384’ and ‘SHA-512’.
- **eap** (*boolean*) – Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.
- **expiration\_ttl** (*integer*) – Certificate expiration value, property of the request body.
- **expiration\_ttl\_unit** (*string*) – Certificate expiration unit, property of the request body. Available values are ‘days’, ‘months’, ‘weeks’ and ‘years’.
- **host\_name** (*string*) – Hostname of the Cisco ISE node in which self-signed certificate should be generated., property of the request body.
- **key\_length** (*string*) – Bit size of public key, property of the request body. Available values are ‘1024’, ‘2048’, ‘4096’ and ‘512’.
- **key\_type** (*string*) – Algorithm to use for certificate public key creation, property of the request body. Available values are ‘ECDSA’ and ‘RSA’.
- **name** (*string*) – Friendly name of the certificate., property of the request body.
- **portal** (*boolean*) – Use for portal, property of the request body.
- **portal\_group\_tag** (*string*) – Set Group tag, property of the request body.
- **pxgrid** (*boolean*) – Use certificate for the pxGrid Controller, property of the request body.
- **radius** (*boolean*) – Use certificate for the RADSec server, property of the request body.
- **saml** (*boolean*) – Use certificate for SAML Signing, property of the request body.
- **san\_dns** (*list*) – Array of SAN (Subject Alternative Name) DNS entries, property of the request body (list of strings).
- **san\_ip** (*list*) – Array of SAN IP entries, property of the request body (list of strings).
- **san\_uri** (*list*) – Array of SAN URI entries, property of the request body (list of strings).
- **subject\_city** (*string*) – Certificate city or locality (L), property of the request body.
- **subject\_common\_name** (*string*) – Certificate common name (CN), property of the request body.
- **subject\_country** (*string*) – Certificate country (C), property of the request body.
- **subject\_org** (*string*) – Certificate organization (O), property of the request body.
- **subject\_org\_unit** (*string*) – Certificate organizational unit (OU), property of the request body.

- **subject\_state** (*string*) – Certificate state (ST), property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
import_system_certificate (admin=None, allow_extended_validity=None,
                           allow_out_of_date_cert=None, al-
                           low_portal_tag_transfer_for_same_subject=None,
                           allow_replacement_of_certificates=None, al-
                           low_replacement_of_portal_group_tag=None, al-
                           low_role_transfer_for_same_subject=None, al-
                           low_sha1_certificates=None, allow_wild_card_certificates=None,
                           data=None, eap=None, ims=None, name=None, pass-
                           word=None, portal=None, portal_group_tag=None, pri-
                           vate_key_data=None, pxgrid=None, radius=None, saml=None,
                           validate_certificate_extensions=None, headers=None, pay-
                           load=None, active_validation=True, **query_parameters)
```

**Import an X509 certificate as a system certificate. NOTE:** The certificate may have a validity period longer than 398 days. It may be untrusted by many browsers. NOTE: Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following parameters are used in POST body  
PARAMETER DESCRIPTION EXAMPLE name Friendly name of the certificate.  
"name": "System certificate" password \* required Password of the certificate to be imported (required).  
"password": "certificate password" data \* required Plain-text contents of the certificate file.  
Every space needs to be replaced with newline escape sequence (

) (required). Use awk 'NF {sub(/

/, ""); printf "%sn", \$0;}' <<your .pem file>> to extract data from certificate file. "data": "Plain-text contents of the certificate file."  
privateKeyData \* required Plain-text contents of the private key file.  
Every space needs to be replaced with newline escape sequence (

) (required). Use awk 'NF {sub(/

```
/, ""); printf "%sn", $0;}' <<your .pem file>> to extract privateKeyData from private key file. "data":
"Plain-text contents of the private key file." allowOutOfDateCert * required Allow out of date
certificates (required). SECURITY ALERT: It is recommended to use "allowOutOfDateCert":
false to avoid import of expired certificates (not Secure). "allowOutOfDateCert": true allow-
SHA1certificates * required Allow import of certificate with signature that uses the SHA-1 hash-
ing algorithm and is considered less secure (required). SECURITY ALERT: It is recommended to
use "allowSHA1certificates": false to avoid import of SHA1 based certificates (less secure). "allow-
SHA1certificates": true allowExtendedValidity * required Allow the certificates greater than validity
of 398 days (required). "allowExtendedValidity": true allowRoleTransferForSameSubject Allow the
transfer of roles to certificates with same subject "allowRoleTransferForSameSubject": true allow-
PortalTagTransferForSameSubject Acquire the group tag of the matching certificate "allowPortalT-
agTransferForSameSubject": true admin Use certificate to authenticate the Cisco ISE Admin Portal
"admin": false eap Use certificate for EAP protocols that use SSL/TLS tunneling "eap": false radius
Use certificate for RADSec server "radius": false pxgrid Use certificate for the pxGrid Controller "px-
grid": false ims Use certificate for the Cisco ISE Messaging Service "ims": false saml Use certificate
for SAML Signing "saml": false portal Use certificate for portal "portal": false portalGroupTag Portal
Group Tag for using certificate with portal role "portalGroupTag": "Default Portal certificate Group"
allowReplacementOfPortalGroupTag * required Allow Replacement of Portal Group Tag (required).
"allowReplacementOfPortalGroupTag": true allowWildcardcertificates Allow use of WildCards in
certificates "allowWildcardcertificates": false validatecertificateExtensions Validate certificate exten-
sions "validatecertificateExtensions": false Following roles can be used in any combinations ROLE
DEFAULT WARNING Admin False Enabling Admin role for this certificate causes an application
server restart on the selected node. Note: Make sure required Certificate Chain is imported under
Trusted Certificates EAP Authentication False Only one system certificate can be used for EAP. As-
signing EAP to this certificate removes the assignment from another certificate. Note: Make sure
required Certificate Chain is imported under Trusted Certificates RADIUS DTLS False Only one sys-
tem certificate can be used for DTLS. Assigning DTLS to this certificate removes the assignment from
another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates
SAML False SAML cannot be used with other Usage. Enabling SAML unchecks all other Usage.
Note: Make sure required Certificate Chain is imported under Trusted Certificates .
```

#### Args:

- admin(boolean):** Use certificate to authenticate the Cisco ISE Admin Portal, property of the request body.
- allow\_extended\_validity(boolean):** Allow import of certificates with validity greater than 398 days (required), property of the request body.
- allow\_out\_of\_date\_cert(boolean):** Allow out of date certificates (required), property of the request body.
- allow\_portal\_tag\_transfer\_for\_same\_subject(boolean):** Allow overwriting the portal tag from matching certificate of same subject, property of the request body.
- allow\_replacement\_of\_certificates(boolean):** Allow Replacement of certificates (required), property of the request body.
- allow\_replacement\_of\_portal\_group\_tag(boolean):** Allow Replacement of Portal Group Tag (required), property of the request body.
- allow\_role\_transfer\_for\_same\_subject(boolean):** Allow transfer of roles for certificate with matching subject , property of the request body.
- allow\_sha1\_certificates(boolean):** Allow SHA1 based certificates (required), property of the request body.
- allow\_wild\_card\_certificates(boolean):** Allow Wildcard certificates, property of the request body.

**data(string):** Certificate Content (required), property of the request body.

**eap(boolean):** Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.

**ims(boolean):** Use certificate for the Cisco ISE Messaging Service, property of the request body.

**name(string):** Name of the certificate, property of the request body.

**password(string):** Certificate Password (required), property of the request body.

**portal(boolean):** Use for portal, property of the request body.

**portal\_group\_tag(string):** Set Group tag, property of the request body.

**private\_key\_data(string):** Private Key data (required), property of the request body.

**pxgrid(boolean):** Use certificate for the pxGrid Controller, property of the request body.

**radius(boolean):** Use certificate for the RADSec server, property of the request body.

**saml(boolean):** Use certificate for SAML Signing, property of the request body.

**validate\_certificate\_extensions(boolean):** Validate certificate extensions, property of the request body.

**headers(dict):** Dictionary of HTTP Headers to send with the Request .

**payload(dict):** A JSON serializable Python object to send in the body of the Request.

**active\_validation(bool):** Enable/Disable payload validation. Defaults to True.

**\*\*query\_parameters:** Additional query parameters (provides support for parameters that may be added in the future).

Returns:

RestResponse: REST response with following properties:

- **headers(MyDict):** response headers.
- **response(MyDict):** response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes):** representation of the request's response
- **text(str):** representation of the request's response

**Raises:** TypeError: If the parameter types are incorrect. MalformedRequest: If the request body created is invalid. ApiError: If the Identity Services Engine cloud returns an error.

**get\_system\_certificates** (*host\_name*, *filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT .

#### Parameters

- **host\_name** (*basestring*) – hostName path parameter. Name of the host of which system certificates should be returned.
- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.



- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_system\_certificates\_generator** (*host\_name*, *filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT .

### Parameters

- **host\_name** (*basestring*) – hostName path parameter. Name of the host of which system certificates should be returned.
- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.

- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request’s response
  - **text**(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_system\_certificate\_by\_id** (*host\_name*, *id*, *headers=None*, *\*\*query\_parameters*)

This API provides details of a System Certificate of a particular node based on given HostName and ID.

### Parameters

- **host\_name** (*basestring*) – hostName path parameter. Name of the host of which system certificates should be returned.
- **id** (*basestring*) – id path parameter. ID of the system certificate.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_system\_certificate** (*host\_name*, *id*, *admin=None*, *allow\_portal\_tag\_transfer\_for\_same\_subject=None*, *allow\_replacement\_of\_portal\_group\_tag=None*, *allow\_role\_transfer\_for\_same\_subject=None*, *description=None*, *eap=None*, *expiration\_ttl\_period=None*, *expiration\_ttl\_units=None*, *ims=None*, *name=None*, *portal=None*, *portal\_group\_tag=None*, *pxgrid=None*, *radius=None*, *renew\_self\_signed\_certificate=None*, *saml=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Update a System Certificate. NOTE: Renewing a certificate causes an application server restart on the selected node. NOTE: Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following parameters are used in POST body

| PARAMETER                            | DESCRIPTION  | EXAMPLE  |
|--------------------------------------|--|--|
| name                                 | Friendly name of the certificate.  | "name": "System Certificate"                         |
| description                          | Description of the certificate   | "description": "Description of certificate"          |
| admin                                | Use certificate to authenticate the Cisco ISE Admin Portal                       | "admin": false                                       |
| eap                                  | Use certificate for EAP protocols that use SSL/TLS tunneling                     | "eap": false   |
| radius                               | Use certificate for RADIUS server  | "radius": false                                      |
| pxgrid                               | Use certificate for the pxGrid Controller  | "pxgrid": false                                      |
| ims                                  | Use certificate for the Cisco ISE Messaging Service                              | "ims": false   |
| saml                                 | Use certificate for SAML Signing   | "saml": false  |
| portal                               | Use certificate for portal   | "portal": false                                      |
| portalGroupTag                       | Portal Group Tag for using certificate with portal role                          | "portalGroupTag": "Default Portal Certificate Group" |
| allowReplacementOfPortalGroupTag     | * required Allow Replacement of Portal Group Tag (required).                     | "allowReplacementOfPortalGroupTag": true             |
| allowRoleTransferForSameSubject      | * required Allow transfer of roles to certificates with same subject (required). | "allowRoleTransferForSameSubject": true              |
| allowPortalTagTransferForSameSubject | * required Acquire group tag of the matching certificate (required).             | "allowPortalTagTransferForSameSubject": true         |
| renewSelfSignedCertificate           | Renew Self- signed Certificate   | "renewSelfSignedCertificate": false                  |
| expirationTTLPeriod                  | Expiration Period  | "expirationTTLPeriod": 365                           |
| expirationTTLUnits                   | Expiration Units in one of the below formats days / weeks / months / years       | "expirationTTLUnits": "days"                         |

Following roles can be used in any combinations

| ROLE   | DEFAULT        | WARNING   |
|--------|----------------|---|
| Admin  | False          | Enabling Admin role for this certificate causes an application server restart on the selected node. Note: Make sure required Certificate Chain is imported under Trusted Certificates   |
| EAP    | Authentication | False Only one system certificate can be used for EAP. Assigning EAP to this certificate removes the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates   |
| RADIUS | DTLS           | False Only one system certificate can be used for DTLS. Assigning DTLS to this certificate removes the assignment from another certificate. Note: Make sure required Certificate Chain is imported under Trusted Certificates |
| SAML   | False          | SAML cannot be used with other Usage. Enabling SAML unchecks all other Usage. Note: Make sure required Certificate Chain is imported under Trusted Certificates   |

**Parameters**

- **`admin (boolean)`** – Use certificate to authenticate the Cisco ISE Admin Portal, property of the request body.

- **allow\_portal\_tag\_transfer\_for\_same\_subject** (*boolean*) – Allow overwriting the portal tag from matching certificate of same subject, property of the request body.
- **allow\_replacement\_of\_portal\_group\_tag** (*boolean*) – Allow Replacement of Portal Group Tag (required), property of the request body.
- **allow\_role\_transfer\_for\_same\_subject** (*boolean*) – Allow transfer of roles for certificate with matching subject, property of the request body.
- **description** (*string*) – Description of System Certificate, property of the request body.
- **eap** (*boolean*) – Use certificate for EAP protocols that use SSL/TLS tunneling, property of the request body.
- **expiration\_ttl\_period** (*integer*) – expirationTTLPeriod, property of the request body.
- **expiration\_ttl\_units** (*string*) – expirationTTLUnits, property of the request body. Available values are 'days', 'months', 'weeks' and 'years'.
- **ims** (*boolean*) – Use certificate for the Cisco ISE Messaging Service, property of the request body.
- **name** (*string*) – Name of the certificate, property of the request body.
- **portal** (*boolean*) – Use for portal, property of the request body.
- **portal\_group\_tag** (*string*) – Set Group tag, property of the request body.
- **pxgrid** (*boolean*) – Use certificate for the pxGrid Controller, property of the request body.
- **radius** (*boolean*) – Use certificate for the RADSec server, property of the request body.
- **renew\_self\_signed\_certificate** (*boolean*) – Renew Self- signed Certificate, property of the request body.
- **saml** (*boolean*) – Use certificate for SAML Signing, property of the request body.
- **id** (*basestring*) – id path parameter. ID of the System Certificate to be updated.
- **host\_name** (*basestring*) – hostName path parameter. Name of Host whose certificate needs to be updated.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_system_certificate_by_id`** (*host\_name, id, headers=None, \*\*query\_parameters*)

This API deletes a System Certificate of a particular node based on given HostName and ID.

**Parameters**

- **`host_name`** (*basestring*) – hostName path parameter. Name of the host from which System Certificate needs to be deleted.
- **`id`** (*basestring*) – id path parameter. ID of the System Certificate to be deleted.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_trusted_certificates`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT status Allowed values: enabled, disabled Supported Operators: EQ, NEQ .

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_trusted\_certificates\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

This API supports Filtering, Sorting and Pagination. Filtering and Sorting supported on below mentioned attributes: friendlyName subject issuedTo issuedBy validFrom Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT expirationDate Supported Date Format: yyyy-MM-dd HH:mm:ss Supported Operators: EQ, NEQ, GT and LT status Allowed values: enabled, disabled Supported Operators: EQ, NEQ .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**export\_trusted\_certificate** (*id*, *dirpath=None*, *save\_file=None*, *filename=None*, *headers=None*, *\*\*query\_parameters*)

The response of this API carries a trusted certificate file mapped to the requested ID.

### Parameters

- **id** (*basestring*) – id path parameter. ID of the Trusted Certificate to be exported.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

### Raises



- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

```
import_trust_certificate (allow_basic_constraint_cafalse=None, allow_out_of_date_cert=None, allow_sha1_certificates=None, data=None, description=None, name=None, trust_for_certificate_based_admin_auth=None, trust_for_cisco_services_auth=None, trust_for_client_auth=None, trust_for_ise_auth=None, validate_certificate_extensions=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

**Import an X509 certificate as a trust certificate. NOTE:** Request parameters accepting True and False as input can be replaced by 1 and 0 respectively. Following parameters are used in POST body  
PARAMETER DESCRIPTION EXAMPLE name Friendly name of the certificate “name”: “Trust Certificate” description Description of the certificate “description”: “Imported Trust Certificate” data \* required Plain-text contents of the certificate file. Every space needs to be replaced with newline escape sequence (

) (required). Use awk ‘NF {sub(/ /, “”);

```
printf “%sn”, $0;}’ <<your .pem file>>
```

to extract data from certificate file. “data”: “Plain-text contents of the certificate file.” allowOutOfDateCert \* required Allow out of date certificates (required). SECURITY ALERT: It is recommended to use “allowOutOfDateCert”: false to avoid import of expired certificates (not Secure). “allowOutOfDateCert”: true allowSHA1Certificates \* required Allow import of certificate with signature that uses SHA-1 hashing algorithm and is considered less secure (required). SECURITY ALERT: It is recommended to use “allowSHA1Certificates”: false to avoid import of SHA1 based certificates (less secure). “allowSHA1Certificates”: true allowBasicConstraintCAFalse \* required Allow certificates with Basic Constraints CA Field as False (required). SECURITY ALERT: It is recommended to use “allowBasicConstraintCAFalse”: false to avoid import of certificates with Basic Constraints CA Field as False (not Secure). “allowBasicConstraintCAFalse”: true trustForIseAuth Trust for authentication within Cisco ISE “trustForIseAuth”: false trustForClientAuth Trust for client authentication and Syslog “trustForClientAuth”: false trustForCertificateBasedAdminAuth Trust for certificate based Admin authentication “trustForCertificateBasedAdminAuth”: false trustForCiscoServicesAuth Trust for authentication of Cisco Services “trustForCiscoServicesAuth”: false validateCertificateExtensions Validate extensions for trust certificate “validateCertificateExtensions”: false NOTE: If name is not set, a default name with the following format is used: common- name#issuer#nnnnn where “nnnnn” is a unique number. You can always change the friendly name later by editing the certificate. You must choose how this certificate is trusted in Cisco ISE. The objective here is to distinguish between certificates that are used for trust within an Cisco ISE deployment and public certificates that are used to trust Cisco services. Typically, you do not want to use a given certificate for both purposes. Trusted For Usage Authentication within Cisco ISE Use “trustForIseAuth”:true if the certificate is used for trust within Cisco ISE, such as for secure communication between Cisco ISE nodes Client authentication and Syslog Use “trustForClientAuth”:true if the certificate is to be used for authentication of endpoints that contact Cisco ISE over the EAP protocol. Also check this box if certificate is used to trust a Syslog server. Make sure to have keyCertSign bit asserted under KeyUsage extension for this certificate. Note: “” can be set true only if the “trustForIseAuth” has been set true. Certificate based admin authentication Use “trustForCertificateBasedAdminAuth”:true if the certificate is used for trust within Cisco ISE, such as for secure communication between Cisco ISE nodes



Note: “trustForCertificateBasedAdminAuth” can be set true only if “trustForIseAuth” and “trustForClientAuth” are true. Authentication of Cisco Services Use “trustForCiscoServicesAuth”:true if the certificate is to be used for trusting external Cisco services, such as Feed Service. .

#### Args:

**allow\_basic\_constraint\_cafalse(boolean):** Allow certificates with Basic Constraints CA Field as False (required), property of the request body.

**allow\_out\_of\_date\_cert(boolean):** Allow out of date certificates (required), property of the request body.

**allow\_sha1\_certificates(boolean):** Allow SHA1 based certificates (required), property of the request body.

**data(string):** Certificate content (required), property of the request body.

**description(string):** Description of the certificate, property of the request body.

**name(string):** Name of the certificate, property of the request body.

**trust\_for\_certificate\_based\_admin\_auth(boolean):** Trust for Certificate based Admin authentication, property of the request body.

**trust\_for\_cisco\_services\_auth(boolean):** Trust for authentication of Cisco Services, property of the request body.

**trust\_for\_client\_auth(boolean):** Trust for client authentication and Syslog, property of the request body.

**trust\_for\_ise\_auth(boolean):** Trust for authentication within Cisco ISE, property of the request body.

**validate\_certificate\_extensions(boolean):** Validate trust certificate extension, property of the request body.

**headers(dict):** Dictionary of HTTP Headers to send with the Request .

**payload(dict):** A JSON serializable Python object to send in the body of the Request.

**active\_validation(bool):** Enable/Disable payload validation. Defaults to True.

**\*\*query\_parameters:** Additional query parameters (provides support for parameters that may be added in the future).

#### Returns:

RestResponse: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Raises:** TypeError: If the parameter types are incorrect. MalformedRequest: If the request body created is invalid. ApiError: If the Identity Services Engine cloud returns an error.

**get\_trusted\_certificate\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API can displays details of a Trust Certificate based on a given ID.

#### Parameters

- **id** (*basestring*) – id path parameter. ID of the trust certificate.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_trusted_certificate (id, authenticate_before_crl_received=None, auto-  
    automatic_crl_update=None, automatic_crl_update_period=None,  
    automatic_crl_update_units=None, crl_distribution_url=None,  
    crl_download_failure_retries=None,  
    crl_download_failure_retries_units=None, description=None,  
    download_crl=None, enable_ocsp_validation=None, enable_server_identity_check=None, ignore_crl_expiration=None,  
    name=None, non_automatic_crl_update_period=None,  
    non_automatic_crl_update_units=None, reject_if_no_status_from_ocs_p=None, reject_if_unreachable_from_ocs_p=None, selected_ocsp_service=None, status=None, trust_for_certificate_based_admin_auth=None, trust_for_cisco_services_auth=None, trust_for_client_auth=None, trust_for_ise_auth=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Update a trusted certificate present in Cisco ISE trust store. Following parameters are used in PUT request body

| PARAMETER                         | DESCRIPTION  | EXAMPLE   |
|-----------------------------------|--|---|
| name                              | * required Friendly name of the certificate (required).      | "name": "Trust Certificate"                                     |
| status                            | Status of the certificate                                    | "status": "Enabled"   |
| description                       | Description of the certificate                               | "description": "Certificate for secure connection to cisco.com" |
| trustForIseAuth                   | Trust for authentication within Cisco ISE                    | "trustForIseAuth": false  |
| trustForClientAuth                | Trust for client authentication and Syslog                   | "trustForClientAuth": false                                     |
| trustForCertificateBasedAdminAuth | Trust for certificate based Admin authentication             | "trustForCertificateBasedAdminAuth": false                      |
| trustForCiscoServiceAuth          | Trust for authentication of Cisco Services                   | "trustForCiscoServicesAuth": false                              |
| enableOCSPValidation              | Switch to enable or disable OCSP Validation                  | "enableOCSPValidation": false                                   |
| selectedOCSPService               | Name of selected OCSP Service                                | "selectedOCSPService": "INTERNAL_OCSP_SERVICE"                  |
| rejectIfNoStatusFromOCSP          | Switch to reject certificate if there is no status from OCSP | "rejectIfNoStatusFromOCSP": false                               |
| rejectIfUnreachableFromOCSP       | Switch to reject certificate if unreachable from OCSP        | "rejectIfUnreachableFromOCSP": false                            |
| downloadCRL                       | Switch to enable or disable download of CRL                  | "downloadCRL": false  |
| crlDistributionUrl                | Certificate Revocation List Distribution URL                 | "crlDistributionUrl": "CRL"                                     |

distribution URL” automaticCRLUpdate Switch to enable or disable automatic CRL update “automaticCRLUpdate”: false automaticCRLUpdatePeriod Automatic CRL update period “automaticCRLUpdatePeriod”: 5 automaticCRLUpdateUnits Unit of time for automatic CRL update “automaticCRLUpdateUnits”: “Minutes” nonAutomaticCRLUpdatePeriod Non automatic CRL update period “nonAutomaticCRLUpdatePeriod”: 1 nonAutomaticCRLUpdateUnits Unit of time of non automatic CRL update “nonAutomaticCRLUpdateUnits”: “Hours” crlDownloadFailureRetries If CRL download fails, wait time before retry “crlDownloadFailureRetries”: 10 crlDownloadFailureRetriesUnits Unit of time before retry if CRL download fails “crlDownloadFailureRetriesUnits”: “Minutes” enableServerIdentityCheck Switch to enable or disable verification if HTTPS or LDAP server certificate name fits the configured server URL “enableServerIdentityCheck”: false authenticateBeforeCRLReceived Switch to enable or disable CRL Verification if CRL is not Received “authenticateBeforeCRLReceived”: false ignoreCRLEExpiration Switch to enable or disable ignore CRL Expiration “ignoreCRLEExpiration”: false Trusted For Usage Authentication within Cisco ISE Use “trustForIseAuth”:true if the certificate is used for trust within Cisco ISE, such as for secure communication between Cisco ISE nodes Client authentication and Syslog Use “trustForClientAuth”:true if the certificate is to be used for authentication of endpoints that contact Cisco ISE over the EAP protocol. Also check this box if certificate is used to trust a Syslog server. Make sure to have keyCertSign bit asserted under KeyUsage extension for this certificate. Note: “trustForClientAuth” can be set true only if the “trustForIseAuth” has been set true. Certificate based admin authentication Use “trustForCertificateBasedAdminAuth”:true if the certificate is used for trust within Cisco ISE, such as for secure communication between Cisco ISE nodes Note: “trustForCertificateBasedAdminAuth” can be set true only if “trustForIseAuth” and “trustForClientAuth” are true. Authentication of Cisco Services Use “trustForCiscoServicesAuth”:true if the certificate is to be used for trusting external Cisco services, such as Feed Service. OSCP Configuration Usage Validation against OSCP service Use “enableOCSPValidation”:true to validate the certificate against OSCP service mentioned in the field selectedOCSPService OSCP Service name Use “selectedOCSPService”:“Name of OSCP Service” Name of the OSCP service against which the certificate should be validated Note: “selectedOCSPService” value is used if “enableOCSPValidation” has been set true. Reject the request if OSCP returns UNKNOWN status Use “rejectIfNoStatusFromOCSP”:true to reject the certificate if the OSCP service returns UNKNOWN status Note: “rejectIfNoStatusFromOCSP:true” can be used only if “enableOCSPValidation” has been set true. Reject the request if OSCP Responder is unreachable Use “rejectIfUnreachableFromOCSP”:true to reject the certificate if the OSCP service is unreachable. Note: “rejectIfUnreachableFromOCSP:true” can be used only if “enableOCSPValidation” has been set true. Certificate Revocation List Configuration Usage Validation against CRL Use “downloadCRL”:true to validate the certificate against CRL downloaded from URL mentioned in the field crlDistributionUrl CRL distribution url Use “crlDistributionUrl” to specify the URL from where the CRL should be downloaded Note: “crlDistributionUrl” value is used if “downloadCRL” has been set true. Retrieve CRL time Use “automaticCRLUpdate”:true and automaticCRLUpdatePeriod, automaticCRLUpdatePeriod to set the time before which CRL is automatically retrieved prior to expiration Use “nonAutomaticCRLUpdatePeriod, nonAutomaticCRLUpdateUnits to set the time period for CRL retrieval in loop. Note: All the above fields can be used only if “downloadCRL” has been set true. If download fails Use “crlDownloadFailureRetries” and “crlDownloadFailureRetriesUnits” to set retry time period if CRL download fails Note: “crlDownloadFailureRetries” and “crlDownloadFailureRetriesUnits” can be used only if “downloadCRL” has been set true. Enable Server Identity Check Use “enableServerIdentityCheck”:true to verify that HTTPS or LDAPS server certificate name fits the configured server URL Note: “enableServerIdentityCheck:true” can be used only if “downloadCRL” has been set true. Bypass CRL Verification if CRL is not Received Use “authenticateBeforeCRLReceived”:true to bypass CRL Verification if CRL is not Received Note: “authenticateBeforeCRLReceived:true” can be used only if “downloadCRL” has been set true. Ignore that CRL is not yet valid or has expired Use “ignoreCRLEExpiration”:true to ignore if CRL is not yet valid or expired Note: “ignoreCRLEExpiration:true” can be used only if “downloadCRL” has been set true. Note: boolean properties accept integers values as well, with 0 considered as false and other values being considered as true .

#### Parameters

- **authenticate\_before\_crl\_received**(*boolean*) – Switch to enable or disable CRL verification if CRL is not received, property of the request body.

- **automatic\_crl\_update** (*boolean*) – Switch to enable or disable automatic CRL update, property of the request body.
- **automatic\_crl\_update\_period** (*integer*) – Automatic CRL update period, property of the request body.
- **automatic\_crl\_update\_units** (*string*) – Unit of time for automatic CRL update, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **crl\_distribution\_url** (*string*) – CRL Distribution URL, property of the request body.
- **crl\_download\_failure\_retries** (*integer*) – If CRL download fails, wait time before retry, property of the request body.
- **crl\_download\_failure\_retries\_units** (*string*) – Unit of time before retry if CRL download fails, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **description** (*string*) – Description for trust certificate, property of the request body.
- **download\_crl** (*boolean*) – Switch to enable or disable download of CRL, property of the request body.
- **enable\_ocsp\_validation** (*boolean*) – Switch to enable or disable OCSP Validation, property of the request body.
- **enable\_server\_identity\_check** (*boolean*) – Switch to enable or disable verification if HTTPS or LDAP server certificate name fits the configured server URL, property of the request body.
- **ignore\_crl\_expiration** (*boolean*) – Switch to enable or disable ignore CRL expiration, property of the request body.
- **name** (*string*) – Friendly name of the certificate, property of the request body.
- **non\_automatic\_crl\_update\_period** (*integer*) – Non automatic CRL update period, property of the request body.
- **non\_automatic\_crl\_update\_units** (*string*) – Unit of time of non automatic CRL update, property of the request body. Available values are ‘Days’, ‘Hours’, ‘Minutes’ and ‘Weeks’.
- **reject\_if\_no\_status\_from\_ocs\_p** (*boolean*) – Switch to reject certificate if there is no status from OCSP, property of the request body.
- **reject\_if\_unreachable\_from\_ocs\_p** (*boolean*) – Switch to reject certificate if unreachable from OCSP, property of the request body.
- **selected\_ocsp\_service** (*string*) – Name of selected OCSP Service, property of the request body.
- **status** (*string*) – status, property of the request body. Available values are ‘Disabled’ and ‘Enabled’.
- **trust\_for\_certificate\_based\_admin\_auth** (*boolean*) – Trust for Certificate based Admin authentication, property of the request body.
- **trust\_for\_cisco\_services\_auth** (*boolean*) – Trust for authentication of Cisco Services, property of the request body.

- **trust\_for\_client\_auth** (*boolean*) – Trust for client authentication and Syslog, property of the request body.
- **trust\_for\_ise\_auth** (*boolean*) – Trust for authentication within Cisco ISE, property of the request body.
- **id** (*basestring*) – id path parameter. ID of the trust certificate.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_trusted\_certificate\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a Trust Certificate from Trusted Certificate Store based on a given ID.

### Parameters

- **id** (*basestring*) – id path parameter. ID of the Trusted Certificate to be deleted.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## clear\_threats\_and\_vulnerabilities

### class ClearThreatsAndVulnerabilities

Identity Services Engine ClearThreatsAndVulnerabilities API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine ClearThreatsAndVulnerabilities API and exposes the API as native Python methods that return native Python objects.

Clear Threats and Vulnerabilities API allows the user to delete the ThreatContext and Threat events that are associated with the given MAC Address.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.1               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Re-quired | Description                         | Example Values                               |
|---------------|--------|-----------|-------------------------------------|--|
| name          | String | Yes       | Resource Name                       |  |
| id            | String | Yes       | Resource UUID value                 |  |
| macAd-dresses | String | Yes       | One or more endpoint MAC ad-dresses | [ “00:00:00:00:00:F2”, “00:00:00:00:00:F3” ] |

**clear\_threats\_and\_vulnerabilities** (*mac\_addresses=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to delete the ThreatContext and Threat events that are associated with the given MAC Address.

#### Parameters

- **mac\_addresses** (*string*) – macAddresses, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**clear** (*mac\_addresses=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *clear\_threats\_and\_vulnerabilities*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the clear threats and vulnerabilities.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## consumer

### class Consumer

Identity Services Engine Consumer API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Consumer API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**create\_account** (*node\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                  *\*\*query\_parameters*)

AccountCreate.

#### Parameters

- **node\_name** (*string*) – nodeName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**create** (*node\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for [create\\_account](#)

**activate\_account** (*description=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 AccountActivate.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**lookup\_service** (*name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 ServiceLookup.

#### Parameters

- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`access_secret`** (*peer\_node\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
AccessSecret.

**Parameters**

- **`peer_node_name`** (*string*) – peerNodeName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## **device\_administration\_authentication\_rules**

### **class DeviceAdministrationAuthenticationRules**

Identity Services Engine Device Administration - Authentication Rules API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Authentication Rules API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_authentication_rules`** (*policy\_id, headers=None, \*\*query\_parameters*)  
Device Admin Get authentication rules.

**Parameters**

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_authentication\_rules*

**create\_device\_admin\_authentication\_rule** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Create authentication rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authentication policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

### Parameters

- **identity\_source\_name** (*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_device\_admin\_authentication\_rule*

**reset\_hit\_counts\_device\_admin\_authentication\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Reset HitCount for Authentication Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for [\*reset\\_hit\\_counts\\_device\\_admin\\_authentication\\_rules\*](#)

**get\_device\_admin\_authentication\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Get rule attributes.

#### Parameters

- **policy\_id**(*basestring*) – policyId path parameter. Policy id.
- **id**(*basestring*) – id path parameter. Rule id.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [\*RestResponse\*](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for [\*get\\_device\\_admin\\_authentication\\_rule\\_by\\_id\*](#)

**update\_device\_admin\_authentication\_rule\_by\_id**(*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update rule.

#### Parameters

- **identity\_source\_name**(*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail**(*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.

- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_authentication\_rule\_by\_id*

**delete\_device\_admin\_authentication\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete rule.

### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_device_admin_authentication_rule_by_id`*

**device\_administration\_authorization\_exception\_rules****class DeviceAdministrationAuthorizationExceptionRules**

Identity Services Engine Device Administration - Authorization Exception Rules API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Authorization Exception Rules API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_local_exception_rules`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Get local exception rules.

**Parameters**

- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_device_admin_local_exception_rules`

**create\_device\_admin\_local\_exception\_rule** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Create local authorization exception rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `create_device_admin_local_exception_rule`



**reset\_hit\_counts\_device\_admin\_local\_exceptions** (*policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Reset HitCount for local exceptions.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_device\_admin\_local\_exceptions*

**get\_device\_admin\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Get local exception rule attributes.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_local\_exception\_rule\_by\_id*

**update\_device\_admin\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update local exception rule.

**Parameters**

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id**(*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for [\*update\\_device\\_admin\\_local\\_exception\\_rule\\_by\\_id\*](#)

**delete\_device\_admin\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete local exception rule.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for [\*delete\\_device\\_admin\\_local\\_exception\\_rule\\_by\\_id\*](#)

## device\_administration\_authorization\_global\_exception\_rules

**class DeviceAdministrationAuthorizationGlobalExceptionRules**

Identity Services Engine Device Administration - Authorization Global Exception Rules API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Authorization Global Exception Rules API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_policy\_set\_global\_exception\_rules** (*headers=None*, *\*\*query\_parameters*)

Device Admin Get global exception rules.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_policy_set_global_exception_rules`*

**`create_device_admin_policy_set_global_exception`** (*commands=None, link=None, profile=None, rule=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Create global exception authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model `ConditionReference` or dynamically built conditions which are not stored in the conditions Library, using models `ConditionAttributes`, `ConditionAndBlock`, `ConditionOrBlock` . .

**Parameters**

- **`commands`** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*commands=None, link=None, profile=None, rule=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_device\_admin\_policy\_set\_global\_exception*

**reset\_hit\_counts\_device\_admin\_global\_exceptions** (*headers=None, \*\*query\_parameters*)

Device Admin Reset HitCount for Global Exceptions.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)

Alias for *reset\_hit\_counts\_device\_admin\_global\_exceptions*

**get\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id** (*id, headers=None, \*\*query\_parameters*)

Device Admin Get global exception rule attribute.

**Parameters**

- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_device_admin_policy_set_global_exception_by_rule_id`*

**`update_device_admin_policy_set_global_exception_by_rule_id`** (*id*, *com-*  
*mands=None*,  
*link=None*,  
*profile=None*,  
*rule=None*,  
*head-*  
*ers=None*, *pay-*  
*load=None*, *ac-*  
*tive\_validation=True*,  
*\*\*query\_parameters*)

Device Admin Update global exception authorization rule.

**Parameters**

- **`commands`** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id*

**`delete_device_admin_policy_set_global_exception_by_rule_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete global exception authorization rule.

**Parameters**

- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id*

## device\_administration\_authorization\_rules

### class DeviceAdministrationAuthorizationRules

Identity Services Engine Device Administration - Authorization Rules API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Authorization Rules API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Device Admin Get authorization rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_device\_admin\_authorization\_rules*

**create\_device\_admin\_authorization\_rule** (*policy\_id*, *commands=None*, *link=None*,  
*profile=None*, *rule=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Device Admin Create authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.



- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_device\_admin\_authorization\_rule*

**reset\_hit\_counts\_device\_admin\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Reset HitCount for Authorization Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_device\_admin\_authorization\_rules*

**get\_device\_admin\_authorization\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Get authorization rule attributes.

**Parameters**

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_authorization\_rule\_by\_id*

**update\_device\_admin\_authorization\_rule\_by\_id**(*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update authorization rule.

**Parameters**

- **commands** (*list*) – Command sets enforce the specified list of commands that can be executed by a device administrator, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **profile** (*string*) – Device admin profiles control the initial login session of the device administrator, property of the request body.

- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *commands=None*, *link=None*, *profile=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_authorization\_rule\_by\_id*

**delete\_device\_admin\_authorization\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete authorization rule.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *`delete_device_admin_authorization_rule_by_id`*

## **device\_administration\_command\_set**

**class DeviceAdministrationCommandSet**

Identity Services Engine Device Administration - Command Set API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Command Set API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_command_sets`** (*headers=None, \*\*query\_parameters*)

Device Admin Return list of command sets. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_command_sets`*

## device\_administration\_conditions

### class DeviceAdministrationConditions

Identity Services Engine Device Administration - Conditions API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns list of library conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_conditions*

**create\_device\_admin\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Creates a library condition: Library Condition has hierarchical structure which define a set of condition for which authentication and authorization policy rules could be match. Condition can be compose from single dictionary attribute name and value using model LibraryConditionAttributes , or from combination of dictionary attributes with logical operation of AND/OR between them, using models: LibraryConditionAndBlock or LibraryConditionOrBlock . When using AND/OR blocks, the condition will include inner layers inside these blocks, these layers are built using the inner condition models: ConditionAttributes , ConditionAndBlock , ConditionOrBlock , that represent dynamically built Conditions which are not stored in the conditions Library, or using ConditionReference , which includes an ID to existing stored condition in the library. The LibraryCondition models can only be used in the outer-most layer (root of the condition) and must always include the condition name. When using one of

the 3 inner condition models ( ConditionAttributes, ConditionAndBlock, ConditionOrBlock ), condition name cannot be included in the request, since these will not be stored in the conditions library, and used only as inner members of the root condition. When using ConditionReference model in inner layers, the condition name is not required. ConditionReference objects can also include a reference ID to a condition of type TimeAndDate . .

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttr” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate con-dition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no spe-cific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.

- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None,
        dates_range=None, dates_range_exception=None, description=None, dictionary_name=None,
        dictionary_value=None, hours_range=None, hours_range_exception=None, id=None, is_negate=None,
        link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None,
        payload=None, active_validation=True, **query_parameters)
```

Alias for *create\_device\_admin\_condition*

```
get_device_admin_conditions_for_authentication_rules (headers=None, **query_parameters)
```

Device Admin Returns list of library conditions for authentication rules.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authentication_rules`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_conditions_for_authentication_rules`*

**`get_device_admin_conditions_for_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Device Admin Returns list of library conditions for authorization rules.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_conditions_for_authorization_rules`*

**`get_device_admin_condition_by_name`** (*name, headers=None, \*\*query\_parameters*)

Device Admin Returns a library condition.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_condition\_by\_name*

**update\_device\_admin\_condition\_by\_name** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update library condition using condition name.

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.

- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **name** – name path parameter. Condition name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_device_admin_condition_by_name`

**`delete_device_admin_condition_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

NDevice Admin Delete a library condition using condition Name.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for `delete_device_admin_condition_by_name`

**`get_device_admin_conditions_for_policy_sets`** (*headers=None*, *\*\*query\_parameters*)

Device Admin Returns list of library conditions for policy sets.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_for\_policy\_sets** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_conditions\_for\_policy\_sets*

**get\_device\_admin\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Device Admin Returns a library condition.

**Parameters**

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_condition\_by\_id*

**update\_device\_admin\_condition\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update library condition.

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAndBlock’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘TimeAndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.

- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_condition\_by\_id*

**delete\_device\_admin\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete a library condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_device\_admin\_condition\_by\_id*

### device\_administration\_dictionary\_attributes\_list

**class DeviceAdministrationDictionaryAttributesList**

Identity Services Engine Device Administration - Dictionary Attributes List API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Dictionary Attributes List API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_dictionaries\_authentication** (*headers=None*,  
*\*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authentication.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authentication`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_dictionaries_authentication`*

**`get_device_admin_dictionaries_authorization`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authorization.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_authorization`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_dictionaries_authorization`*

**`get_device_admin_dictionaries_policy_set`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for policyset.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.



- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_policy_set`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_dictionaries\_policy\_set*

## device\_administration\_identity\_stores

**class DeviceAdministrationIdentityStores**

Identity Services Engine Device Administration - Identity Stores API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Identity Stores API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_identity_stores`** (*headers=None, \*\*query\_parameters*)

Device Admin Return list of identity stores for authentication. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_identity\_stores*

## device\_administration\_network\_conditions

### class DeviceAdministrationNetworkConditions

Identity Services Engine Device Administration - Network Conditions API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Network Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_network\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns a list of network conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_network\_conditions*

**create\_device\_admin\_network\_condition** (*condition\_type=None, conditions=None, description=None, id=None, link=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device AdminCreates network condition.

#### Parameters

- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are 'DeviceCondition', 'DevicePortCondition' and 'EndstationCondition'.
- **conditions** (*list*) – conditions, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Network Condition name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create**(*condition\_type=None, conditions=None, description=None, id=None, link=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_network\_condition*

**get\_device\_admin\_network\_condition\_by\_id**(*id, headers=None, \*\*query\_parameters*)  
Device Admin Returns a network condition.

#### Parameters

- **id**(*basestring*) – id path parameter. Condition id.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_by_id(id, headers=None, **query_parameters)
```

Alias for `get_device_admin_network_condition_by_id`

```
update_device_admin_network_condition_by_id(id, condition_type=None, conditions=None, description=None, link=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Device Admin Update network condition.

#### Parameters

- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are ‘DeviceCondition’, ‘DevicePortCondition’ and ‘EndstationCondition’.
- **conditions** (*list*) – conditions, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Network Condition name, property of the request body.
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, condition_type=None, conditions=None, description=None, link=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_device_admin_network_condition_by_id`

**delete\_device\_admin\_network\_condition\_by\_id** (*id*, *headers=None*,  
*\*\*query\_parameters*)

Device Admin Delete network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_device\_admin\_network\_condition\_by\_id*

## device\_administration\_policy\_set

### class DeviceAdministrationPolicySet

Identity Services Engine Device Administration - Policy Set API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Policy Set API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_policy\_sets** (*headers=None*, *\*\*query\_parameters*)  
 Device Admin List of policy sets.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_policy\_sets*

**create\_device\_admin\_policy\_set** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Create a new policy set: Policy must include name , service identifier (either server sequence or allowed protocol) and a condition. Condition has hierarchical structure which define a set of condition for which policy could be match. Condition can be either reference to a stored Library condition, using model *ConditionReference* , or, dynamically built conditions which are not stored in the conditions Library, using models *ConditionAttributes*, *ConditionAndBlock*, *ConditionOrBlock* . .

**Parameters**

- **`condition`** (*object*) – condition, property of the request body.
- **`default`** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **`description`** (*string*) – The description for the policy set, property of the request body.
- **`hit_counts`** (*integer*) – The amount of times the policy was matched, property of the request body.
- **`id`** (*string*) – Identifier for the policy set, property of the request body.
- **`is_proxy`** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **`link`** (*object*) – link, property of the request body.
- **`name`** (*string*) – Given name for the policy set, [Valid characters are alphanumeric, underscore, hyphen, space, period, parentheses], property of the request body.
- **`rank`** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **`service_name`** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **`state`** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are 'disabled', 'enabled' and 'monitor'.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_policy\_set*

**reset\_hit\_counts\_device\_admin\_policy\_sets** (*headers=None, \*\*query\_parameters*)  
Device Admin Reset HitCount for PolicySets.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_device\_admin\_policy\_sets*

**get\_device\_admin\_policy\_set\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Device Admin Get policy set attributes.

### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_device\_admin\_policy\_set\_by\_id*

**update\_device\_admin\_policy\_set\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Device Admin Update a policy set.

### Parameters

- **condition** (*object*) – condition, property of the request body.
- **default** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **description** (*string*) – The description for the policy set, property of the request body.
- **hit\_counts** (*integer*) – The amount of times the policy was matched, property of the request body.
- **id** (*basestring*) – Identifier for the policy set, property of the request body.
- **is\_proxy** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Given name for the policy set, [Valid characters are alphanumerics, underscore, hyphen, space, period, parentheses], property of the request body.



- **rank** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **service\_name** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **state** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are ‘disabled’, ‘enabled’ and ‘monitor’.
- **id** – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_device\_admin\_policy\_set\_by\_id*

**delete\_device\_admin\_policy\_set\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Device Admin Delete a policy set.

### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_device_admin_policy_set_by_id`*

## device\_administration\_profiles

**class DeviceAdministrationProfiles**

Identity Services Engine Device Administration - Profiles API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Profiles API and exposes the API as native Python methods that return native Python objects.

**`get_device_admin_profiles`** (*headers=None*, *\*\*query\_parameters*)

Device Admin Returns list of shell profiles. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None*, *\*\*query\_parameters*)

Alias for *`get_device_admin_profiles`*

## device\_administration\_service\_names

### class DeviceAdministrationServiceNames

Identity Services Engine Device Administration - Service Names API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Service Names API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_service\_names** (*headers=None, \*\*query\_parameters*)

Returns list of Allowed Protocols and Server Sequences for Device Admin Policy Set results. 'isLocalAuthorization' property is available only for Network Access Policy Set results of type Server Sequence. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_device\_admin\_service\_names*

## device\_administration\_time\_date\_conditions

### class DeviceAdministrationTimeDateConditions

Identity Services Engine Device Administration - Time/Date Conditions API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Device Administration - Time/Date Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_device\_admin\_time\_conditions** (*headers=None, \*\*query\_parameters*)

Device Admin Returns a list of time and date conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_device_admin_time_conditions`*

**`create_device_admin_time_condition`** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Device Admin Creates time/date condition.

### Parameters

- **`attribute_name`** (*string*) – Dictionary attribute name, property of the request body.
- **`attribute_value`** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **`children`** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **`condition_type`** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **`dates_range`** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates

Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.

- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_device\_admin\_time\_condition*

**get\_device\_admin\_time\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Device Admin Returns a network condition.

**Parameters**

- **`id`** (*basestring*) – id path parameter. Condition id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_device\_admin\_time\_condition\_by\_id*

```

update_device_admin_time_condition_by_id (id,          attribute_name=None,      at-
                                          attribute_value=None,    children=None,
                                          condition_type=None,  dates_range=None,
                                          dates_range_exception=None,  descrip-
                                          tion=None, dictionary_name=None, dictio-
                                          nary_value=None,    hours_range=None,
                                          hours_range_exception=None,
                                          is_negate=None, link=None, name=None,
                                          operator=None,    week_days=None,
                                          week_days_exception=None,
                                          headers=None,      payload=None,
                                          active_validation=True,
                                          **query_parameters)

```

Device Admin Update network condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All

Day , property of the request body.

- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```



Alias for `update_device_admin_time_condition_by_id`

**delete\_device\_admin\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Device Admin Delete Time/Date condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for `delete_device_admin_time_condition_by_id`

## downloadable\_acl

### class DownloadableAcl

Identity Services Engine DownloadableACL API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine DownloadableACL API and exposes the API as native Python methods that return native Python objects.

Downloadable ACL API allows the client to add, delete, update, search and perform actions on downloadable ACL.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                             | Revision Modification | Revision Modification           |
|------------|------------------|-------------------|---|-----------------------|---------------------------------|
|            |                  |                   |   | Attribute             | Description                     |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version               |                       |                                 |
| 1          | 1.1              | 2.6               | Support new attribute IP version in 2.6 | dac!Type              | Added Enum Attribute 'dac!Type' |

## Resource Definition

| Attribute   | Type   | Required | Description   | Default Values | Example Values                       |
|-------------|--------|----------|---|----------------|--------------------------------------|
| name        | String | Yes      | Resource Name. Name may contain alphanumeric or any of the following characters [_.-] |                | multiline_acl                        |
| id          | String | Yes      | Resource UUID   |                | c1e0e9e0-717f-11eb-9fb2-b6cb23d38630 |
| description | String | No       | Use the string n for a newline  |                | description                          |
| dac1        | String | Yes      | The DACL Content. Use the string n for a newline                                      |                | permit ip any any                    |
| dac1Type    | Enum   | No       | Allowed values: IPV4, IPV6, IP_AGNOSTIC   | IPV4           |                                      |

**get\_downloadable\_acl\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a downloadable ACL by ID.

## Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_downloadable\_acl\_by\_id*

**update\_downloadable\_acl\_by\_id**(*id*, *dac1=None*, *dac1\_type=None*, *description=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a downloadable ACL.

### Parameters

- **dacl** (*string*) – The DACL Content. Use the string `\n` for a newline, property of the request body.
- **dacl\_type** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **description** (*string*) – Use the string `\n` for a newline, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters `[_.-]`, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *dacl=None*, *dacl\_type=None*, *description=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_downloadable_acl_by_id`

**delete\_downloadable\_acl\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a downloadable ACL.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_downloadable_acl_by_id`*

**`get_downloadable_acl`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all downloadable ACLs.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_downloadable_acl`*

**`get_downloadable_acl_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all downloadable ACLs.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.

- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_downloadable\_acl\_generator*

**create\_downloadable\_acl** (*dac1=None, dac1\_type=None, description=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a downloadable ACL.

### Parameters

- **dac1** (*string*) – The DACL Content. Use the string n for a newline, property of the request body.
- **dac1\_type** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **description** (*string*) – Use the string n for a newline, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [\_.-], property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*acl=None, acl\_type=None, description=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_downloadable\_acl*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the downloadable ACL.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## egress\_matrix\_cell

### **class EgressMatrixCell**

Identity Services Engine EgressMatrixCell API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine EgressMatrixCell API and exposes the API as native Python methods that return native Python objects.

Egress Policy Matrix Cell API allows the client to add, update, delete and search egress matrix cells among other operations.

## Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                 |
|------------|------------------|-------------------|-----------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version   |
| 1          | 1.1              | 2.3               | Introducing bulk operations |

## Resource Definition

| Attribute         | Type   | Re-<br>quired | Description                                | Default<br>Values | Example Values                             |
|-------------------|--------|---------------|--|-------------------|--|
| name              | String | Yes           | Resource Name                              |                   | ANY-ANY                                    |
| id                | String | No            | Resource UUID, mandatory for update        |                   | f92c1a900-8c01-11e6-996c-525400b48521      |
| description       | String | No            |  |                   | Default egress rule                        |
| default-Rule      | Enum   | Yes           | Allowed values: NONE, DENY_IP, PERMIT_IP   | NONE              | PERMIT_IP                                  |
| destinationSgtId  | String | Yes           |  |                   | 92bb1950-8c01-11e6-996c-525400b48521       |
| matrix-CellStatus | Enum   | Yes           | Allowed values: DISABLED, ENABLED, MONITOR | DISABLED          | ENABLED                                    |
| sgACLs            | List   | Yes           |  |                   | [["92951ac0-8c01-11e6-996c-525400b48521"]] |
| sourceSgtId       | String | Yes           |  |                   | 92bb1950-8c01-11e6-996c-525400b48521       |

**clear\_all\_matrix\_cells** (*headers=None, \*\*query\_parameters*)

This API allows the client to clear all the egress matrix cells.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**clear** (*headers=None, \*\*query\_parameters*)

Alias for *clear\_all\_matrix\_cells*

**set\_all\_cells\_status** (*status, headers=None, \*\*query\_parameters*)

This API allows the client to set status of all the egress matrix cells.

#### Parameters

- **status** (*basestring*) – status path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**set\_status** (*status, headers=None, \*\*query\_parameters*)

Alias for *set\_all\_cells\_status*

**clone\_matrix\_cell** (*dst\_sgt\_id, id, src\_sgt\_id, headers=None, \*\*query\_parameters*)

This API allows the client to clone an egress matrix cell.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **src\_sgt\_id** (*basestring*) – srcSgtId path parameter.
- **dst\_sgt\_id** (*basestring*) – dstSgtId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.



- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`clone`** (*dst\_sgt\_id, id, src\_sgt\_id, headers=None, \*\*query\_parameters*)

Alias for *clone\_matrix\_cell*

**`get_egress_matrix_cell_by_id`** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an egress matrix cell by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_egress\_matrix\_cell\_by\_id*

**`update_egress_matrix_cell_by_id`** (*id, default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to update an egress matrix cell.

**Parameters**

- **`default_rule`** (*string*) – Allowed values: NONE, DENY\_IP, PERMIT\_IP, property of the request body.
- **`description`** (*string*) – description, property of the request body.

- **destination\_sgt\_id** (*string*) – destinationSgtId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **matrix\_cell\_status** (*string*) – Allowed values: DISABLED, ENABLED, MONITOR, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgacIs** (*list*) – sgacIs, property of the request body (list of strings).
- **source\_sgt\_id** (*string*) – sourceSgtId, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *default\_rule=None*, *description=None*, *destination\_sgt\_id=None*, *matrix\_cell\_status=None*, *name=None*, *sgacIs=None*, *source\_sgt\_id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_egress\_matrix\_cell\_by\_id*

**delete\_egress\_matrix\_cell\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an egress matrix cell.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_egress_matrix_cell_by_id`*

**`get_egress_matrix_cell`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the egress matrix cell. Filter: [sgtSrc-Value, matrixStatus, description, sgtSrcName, sgtDstName, sgtDstValue] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [description, sgtSrcName, sgtDstName, sgtDstValue].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_egress\_matrix\_cell*

**`get_egress_matrix_cell_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the egress matrix cell. Filter: [sgtSrcValue, matrixStatus, description, sgtSrcName, sgtDstName, sgtDstValue] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [description, sgtSrcName, sgtDstName, sgtDstValue].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_egress\_matrix\_cell\_generator*

**create\_egress\_matrix\_cell** (*default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an egress matrix cell.

**Parameters**

- **default\_rule** (*string*) – Allowed values: NONE, DENY\_IP, PERMIT\_IP, property of the request body.
- **description** (*string*) – description, property of the request body.
- **destination\_sgt\_id** (*string*) – destinationSgtId, property of the request body.
- **matrix\_cell\_status** (*string*) – Allowed values: DISABLED, ENABLED, MONITOR, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgacIs** (*list*) – sgacIs, property of the request body (list of strings).
- **source\_sgt\_id** (*string*) – sourceSgtId, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*default\_rule=None, description=None, destination\_sgt\_id=None, matrix\_cell\_status=None, name=None, sgacIs=None, source\_sgt\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_egress\_matrix\_cell*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the egress matrix cell.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_egress\_matrix\_cell** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – operationType, property of the request body.
- **`resource_media_type`** (*string*) – resourceMediaType, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_egress\_matrix\_cell*

**monitor\_bulk\_status\_egress\_matrix\_cell** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_egress\_matrix\_cell*

## endpoint\_certificate

### **class EndpointCertificate**

Identity Services Engine EndpointCertificate API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine EndpointCertificate API and exposes the API as native Python methods that return native Python objects.

Endpoint Certificate API allows the client to create endpoint certificates signed by the Cisco ISE Internal CA. This API can takes in certificate request details, create a RSA key pair, create a certificate and return the resulting key pair and certificate as a ZIP file. ZIP files are returned as an octet stream.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

### **Resource Definition**



| Attribute          | Type   | Required | Description   | Example Values            |
|--------------------|--------|----------|---|---------------------------|
| name               | String | Yes      | Resource Name   |                           |
| id                 | String | No       | Resource UUID, mandatory for update   |                           |
| description        | String | No       |   |                           |
| certTemplateName   | String | Yes      | Name of an Internal CA template   | Certificate_Template_Name |
| format             | Enum   | Yes      | Allowed values: PKCS12, PKCS12_CHAIN, PKCS8, PKCS8_CHAIN  | PKCS8                     |
| password           | String | Yes      | Protects the private key. Must have more than 8 characters, less than 15 characters, at least one upper case letter, at least one lower case letter, at least one digit, and can only contain [A-Z][a-z][0-9]_# | Password_123              |
| certificateRequest | Map    | Yes      | Key value map. Must have CN and SAN entries   |                           |
| • CN               | String | Yes      | Matches the requester's User Name, unless the Requester is an ERS Admin. ERS Admins are allowed to create requests for any CN   | userName [or] machineName |
| • SAN              | String | Yes      | Valid MAC Address, delimited by '-'   | 11-22-33-44-55-66         |

**create\_endpoint\_certificate** (*cert\_template\_name=None, certificate\_request=None, format=None, password=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create an endpoint certificate.

#### Parameters

- **cert\_template\_name** (*string*) – Name of an Internal CA template, property of the request body.
- **certificate\_request** (*object*) – Key value map. Must have CN and SAN entries, property of the request body.
- **format** (*string*) – Allowed values: PKCS12, PKCS12\_CHAIN, PKCS8,

PKCS8\_CHAIN, property of the request body.

- **password** (*string*) – Protects the private key. Must have more than 8 characters, less than 15 characters, at least one upper case letter, at least one lower case letter, at least one digit, and can only contain [A-Z][a-z][0-9]\_#, property of the request body.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

**create** (*cert\_template\_name=None, certificate\_request=None, format=None, password=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_endpoint\_certificate*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint certificate.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**endpoint\_identity\_group****class EndpointIdentityGroup**

Identity Services Engine EndpointIdentityGroup API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine EndpointIdentityGroup API and exposes the API as native Python methods that return native Python objects.

Endpoint Identity Groups API allows the client to add, delete, update, and search endpoint groups.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 1.3               | Initial Cisco ISE Version |  |  |
| 1          | 1.1              | 2.4               | Added GetByName operation |  |  |

**Resource Definition**

| Attribute     | Type    | Re-quired | Description                         | Default Values | Example Values                                  |
|---------------|---------|-----------|-------------------------------------|----------------|---|
| name          | String  | Yes       | Resource Name                       |                | Cisco-Meraki-Devicee                            |
| id            | String  | No        | Resource UUID, mandatory for update |                | 1e2700a0-8c00-11e6-996c-525400b48521            |
| description   | String  | No        |                                     |                | Identity Group for Profile: Cisco-Meraki-Device |
| systemDefined | Boolean | Yes       |                                     | false          | true  |

**get\_endpoint\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an endpoint identity group by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_group\_by\_name*

**`get_endpoint_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an endpoint identity group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_group\_by\_id*

**`update_endpoint_group_by_id`** (*id*, *description=None*, *name=None*, *system\_defined=None*,  
*headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update an endpoint identity group.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **system\_defined** (*boolean*) – systemDefined, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *system\_defined=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_endpoint\_group\_by\_id*

**delete\_endpoint\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an endpoint identity group.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_endpoint_group_by_id`*

**`get_endpoint_groups`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the endpoint identity groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_endpoint\_groups*

**get\_endpoint\_groups\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoint identity groups. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoint\_groups\_generator*

**create\_endpoint\_group** (*description=None, name=None, system\_defined=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an endpoint identity group.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **system\_defined** (*boolean*) – systemDefined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, system\_defined=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_endpoint\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint identity group.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

### external\_radius\_server

#### class ExternalRadiusServer

Identity Services Engine ExternalRADIUSServer API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine ExternalRADIUSServer API and exposes the API as native Python methods that return native Python objects.

External RADIUS Server API allows the client to add, delete, update, search and perform actions on external RADIUS server.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                              | Revision Modification | Revision Modification              |
|------------|------------------|-------------------|--|-----------------------|------------------------------------|
|            |                  |                   |  | Attribute             | Description                        |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version                |                       |                                    |
| 1          | 1.1              | 2.6               | Support new attribute Proxy Dead Timeout | proxyTime-out         | Added int Attribute 'proxyTimeout' |

#### Resource Definition

| Attribute          | Type    | Required | Description   | Default Values | Example Values                       |
|--------------------|---------|----------|---|----------------|--------------------------------------|
| name               | String  | Yes      | Resource Name. Allowed characters are alphanumeric and _ (underscore).  |                | externalRadiusServer1                |
| id                 | String  | No       | Resource UUID, mandatory for update   |                | da095377-dce8-486e-933a-6ea788bbf51a |
| description        | String  | No       |   |                | example external radius server       |
| hostIP             | String  | Yes      | The IP of the host - must be a valid IPV4 address   |                | 1.1.1.1                              |
| sharedSecret       | String  | Yes      | Shared secret maximum length is 128 characters  |                | sharedSecret                         |
| enableKeyWrap      | Boolean | Yes      | KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices  |                | true                                 |
| encryptionKey      | String  | No       | The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECIMAL characters (depend on selection in field 'keyInputFormat')    |                | 1616161616161616                     |
| authenticatorKey   | String  | No       | The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECIMAL characters (depend on selection in field 'keyInputFormat') |                | 20202020202020202020                 |
| keyInputFormat     | Enum    | Yes      | Specifies the format of the input for fields 'encryptionKey' and 'authenticatorKey'. Allowed Values: ASCII, HEXADECIMAL   |                | ASCII                                |
| authenticationPort | Integer | Yes      | Valid Range 1 to 65535  |                | 1812                                 |
| accountingPort     | Integer | Yes      | Valid Range 1 to 65535  |                | 1813                                 |
| timeout            | Integer | Yes      | Valid Range 1 to 120  |                | 5                                    |
| retries            | Integer | Yes      | Valid Range 1 to 9  |                | 3                                    |
| proxyTimeout       | Integer | No       | Valid Range 1 to 600  | 300            |                                      |

**get\_external\_radius\_server\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an external RADIUS server by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server\_by\_name*

**get\_external\_radius\_server\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an external RADIUS server by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server\_by\_id*

**update\_external\_radius\_server\_by\_id** (*id*, *accounting\_port=None*, *authentication\_port=None*, *authenticator\_key=None*, *description=None*, *enable\_key\_wrap=None*, *encryption\_key=None*, *host\_ip=None*, *key\_input\_format=None*, *name=None*, *proxy\_timeout=None*, *retries=None*, *shared\_secret=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an external RADIUS server.

#### Parameters

- **accounting\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authentication\_port** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **authenticator\_key** (*string*) – The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECEMAL characters (depend on selection in field ‘keyInputFormat’), property of the request body.
- **description** (*string*) – description, property of the request body.
- **enable\_key\_wrap** (*boolean*) – KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices, property of the request body.
- **encryption\_key** (*string*) – The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECEMAL characters (depend on selection in field ‘keyInputFormat’), property of the request body.
- **host\_ip** (*string*) – The IP of the host must be a valid IPV4 address, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **key\_input\_format** (*string*) – Specifies the format of the input for fields ‘encryptionKey’ and ‘authenticatorKey’. Allowed Values: ASCII HEXADECEMAL, property of the request body.
- **name** (*string*) – Resource Name. Allowed characters are alphanumeric and \_ (underscore), property of the request body.
- **proxy\_timeout** (*integer*) – Valid Range 1 to 600, property of the request body.
- **retries** (*integer*) – Valid Range 1 to 9, property of the request body.
- **shared\_secret** (*string*) – Shared secret maximum length is 128 characters, property of the request body.
- **timeout** (*integer*) – Valid Range 1 to 120, property of the request body.
- **id** – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *accounting\_port=None*, *authentication\_port=None*, *authenticator\_key=None*, *description=None*, *enable\_key\_wrap=None*, *encryption\_key=None*, *host\_ip=None*, *key\_input\_format=None*, *name=None*, *proxy\_timeout=None*, *retries=None*, *shared\_secret=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_external\_radius\_server\_by\_id*

**delete\_external\_radius\_server\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an external RADIUS server.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_external\_radius\_server\_by\_id*

**get\_external\_radius\_server** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the external RADIUS servers.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_external\_radius\_server*

**get\_external\_radius\_server\_generator** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the external RADIUS servers.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for `get_external_radius_server_generator`

**`create_external_radius_server`** (*accounting\_port=None, authentication\_port=None, authenticator\_key=None, description=None, enable\_key\_wrap=None, encryption\_key=None, host\_ip=None, key\_input\_format=None, name=None, proxy\_timeout=None, retries=None, shared\_secret=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an external RADIUS server.

**Parameters**

- **`accounting_port`** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **`authentication_port`** (*integer*) – Valid Range 1 to 65535, property of the request body.
- **`authenticator_key`** (*string*) – The authenticatorKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 20 ASCII characters or 40 HEXADECIMAL characters (depend on selection in field 'keyInputFormat'), property of the request body.
- **`description`** (*string*) – description, property of the request body.
- **`enable_key_wrap`** (*boolean*) – KeyWrap may only be enabled if it is supported on the device. When running in FIPS mode this option should be enabled for such devices, property of the request body.
- **`encryption_key`** (*string*) – The encryptionKey is required only if enableKeyWrap is true, otherwise it must be ignored or empty. The maximum length is 16 ASCII characters or 32 HEXADECIMAL characters (depend on selection in field 'keyInputFormat'), property of the request body.
- **`host_ip`** (*string*) – The IP of the host must be a valid IPV4 address, property of the request body.
- **`key_input_format`** (*string*) – Specifies the format of the input for fields 'encryptionKey' and 'authenticatorKey'. Allowed Values: ASCII HEXADECIMAL, property of the request body.
- **`name`** (*string*) – Resource Name. Allowed characters are alphanumeric and \_ (underscore), property of the request body.
- **`proxy_timeout`** (*integer*) – Valid Range 1 to 600, property of the request body.

- **retries** (*integer*) – Valid Range 1 to 9, property of the request body.
- **shared\_secret** (*string*) – Shared secret maximum length is 128 characters, property of the request body.
- **timeout** (*integer*) – Valid Range 1 to 120, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*accounting\_port=None, authentication\_port=None, authenticator\_key=None, description=None, enable\_key\_wrap=None, encryption\_key=None, host\_ip=None, key\_input\_format=None, name=None, proxy\_timeout=None, retries=None, shared\_secret=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_external\_radius\_server*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the external RADIUS server.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response



**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## filter\_policy

### class FilterPolicy

Identity Services Engine FilterPolicy API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine FilterPolicy API and exposes the API as native Python methods that return native Python objects.

Filter Policy API allows clients to add, get, update and delete SXP domain filter policies.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute   | Type   | Required | Description   | Example Values |
|-------------|--------|----------|---|----------------|
| name        | String | Yes      | Resource Name   |                |
| id          | String | No       | Resource UUID, mandatory for update   |                |
| description | String | No       |   |                |
| subnet      | String | No       | Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined | subnetAddress  |
| sgt         | String | No       | SGT name or ID. At least one of subnet or sgt or vn should be defined                                       | sgt            |
| vn          | String | No       | Virtual Network. At least one of subnet or sgt or vn should be defined                                      | virtualNetwork |
| domains     | String | Yes      | List of SXP Domains, separated with comma   | Sxp Vpn Name   |

**get\_filter\_policy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a filter policy by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_filter\_policy\_by\_id*

**update\_filter\_policy\_by\_id** (*id*, *domains=None*, *sgt=None*, *subnet=None*, *vn=None*,  
*headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a filter policy.

### Parameters

- **domains** (*string*) – List of SXP Domains, separated with comma, property of the request body.
- **sgt** (*string*) – SGT name or ID. At least one of subnet or sgt or vn should be defined, property of the request body.
- **subnet** (*string*) – Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined, property of the request body.
- **vn** (*string*) – Virtual Network. At least one of subnet or sgt or vn should be defined, property of the request body.
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *domains=None*, *sgt=None*, *subnet=None*, *vn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for `update_filter_policy_by_id`

**`delete_filter_policy_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a filter policy.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `delete_filter_policy_by_id`

**`get_filter_policy`**(*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the filter policies.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_filter\_policy*

**get\_filter\_policy\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the filter policies.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [get\\_filter\\_policy\\_generator](#)

**create\_filter\_policy** (*domains=None, sgt=None, subnet=None, vn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a filter policy.

#### Parameters

- **domains** (*string*) – List of SXP Domains, separated with comma, property of the request body.
- **sgt** (*string*) – SGT name or ID. At least one of subnet or sgt or vn should be defined, property of the request body.
- **subnet** (*string*) – Subnet for filter policy (hostname is not supported). At least one of subnet or sgt or vn should be defined, property of the request body.
- **vn** (*string*) – Virtual Network. At least one of subnet or sgt or vn should be defined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*domains=None, sgt=None, subnet=None, vn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [create\\_filter\\_policy](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the filter policy.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**guest\_location****class GuestLocation**

Identity Services Engine GuestLocation API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine GuestLocation API and exposes the API as native Python methods that return native Python objects.

Guest Location API allows the client to search the locations configured from Cisco ISE GUI.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

**Resource Definition**

| At-tribute   | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       | name                                 |
| id           | String | No        | Resource UUID, mandatory for update | 9f083530-8c01-11e6-996c-525400b48521 |
| descrip-tion | String | No        |                                     |                                      |

**`get_guest_location_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest location by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_location\_by\_id*

**get\_guest\_location** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest locations. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_guest\_location*

**get\_guest\_location\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest locations. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_guest\_location\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest location.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## guest\_smtp\_notification\_configuration

### **class GuestSmtpNotificationConfiguration**

Identity Services Engine GuestSMTPNotificationConfiguration API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine GuestSMTPNotificationConfiguration API and exposes the API as native Python methods that return native Python objects.

Guest SMTP notification configuration API is a global setting for enabling email notifications within guest application. These APIs allow to create, update and retrieve the notification settings. The create API may not be required to be used as of Cisco ISE Release 2.2 because the single SMTP notification configuration is the only one used and it always gets created during the Cisco ISE application initialization period.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute                 | Type    | Re-<br>quired | Description   | Default<br>Values      | Example Values                       |
|---------------------------|---------|---------------|---|------------------------|--------------------------------------|
| name                      | String  | Yes           | Resource Name   |                        |                                      |
| id                        | String  | No            | Resource UUID, mandatory for update   |                        | 9ecb5340-8c01-11e6-996c-525400b48521 |
| description               | String  | No            |   |                        |                                      |
| defaultFromAddress        | String  | No            | The default from email address to be used to send emails from                             | donotreply@example.com |                                      |
| notificationEnabled       | Boolean | No            | Indicates if the email notification service is to be enabled                              | true                   |                                      |
| smtpServer                | String  | No            | The SMTP server ip address or fqdn such as outbound.mycompany.com                         |                        |                                      |
| useDefaultFromAddress     | Boolean | No            | If the default from address should be used rather than using a sponsor user email address | false                  |                                      |
| smtpPort                  | String  | No            | Port at which SMTP Secure Server is listening   | 25                     |                                      |
| connectionTimeout         | String  | No            | Interval in seconds for all the SMTP client connections                                   | 60                     |                                      |
| useTLSorSSLEncryption     | Boolean | No            | If configured to true, SMTP server authentication will happen using TLS/SSL               | false                  |                                      |
| usePasswordAuthentication | Boolean | No            | If configured to true, SMTP server authentication will happen using username/password     | false                  |                                      |
| userName                  | String  | No            | Username of Secure SMTP server  |                        |                                      |
| password                  | String  | No            | Password of Secure SMTP server  |                        |                                      |

`get_guest_smtp_notification_settings_by_id(id, headers=None, **query_parameters)`

This API allows the client to get a guest SMTP notification configuration by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_smtp\_notification\_settings\_by\_id*

**update\_guest\_smtp\_notification\_settings\_by\_id** (*id*, *connection\_timeout=None*,  
*default\_from\_address=None*,  
*notification\_enabled=None*, *password=None*, *smtp\_port=None*,  
*smtp\_server=None*,  
*use\_default\_from\_address=None*,  
*use\_password\_authentication=None*,  
*use\_tlssor\_ssl\_encryption=None*,  
*user\_name=None*, *headers=None*, *payload=None*,  
*active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a SMTP configuration setting.

#### Parameters

- **connection\_timeout** (*string*) – Interval in seconds for all the SMTP client connections, property of the request body.
- **default\_from\_address** (*string*) – The default from email address to be used to send emails from, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **notification\_enabled** (*boolean*) – Indicates if the email notification service is to be enabled, property of the request body.
- **password** (*string*) – Password of Secure SMTP server, property of the request body.
- **smtp\_port** (*string*) – Port at which SMTP Secure Server is listening, property of the request body.
- **smtp\_server** (*string*) – The SMTP server ip address or fqdn such as out-bound.mycompany.com, property of the request body.
- **use\_default\_from\_address** (*boolean*) – If the default from address should be used rather than using a sponsor user email address, property of the request body.
- **use\_password\_authentication** (*boolean*) – If configured to true, SMTP server authentication will happen using username/password, property of the request body.
- **use\_tlssor\_ssl\_encryption** (*boolean*) – If configured to true, SMTP server authentication will happen using TLS/SSL, property of the request body.
- **user\_name** (*string*) – Username of Secure SMTP server, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *connection\_timeout=None*, *default\_from\_address=None*, *notification\_enabled=None*, *password=None*, *smtp\_port=None*, *smtp\_server=None*, *use\_default\_from\_address=None*, *use\_password\_authentication=None*, *use\_tlsor\_ssl\_encryption=None*, *user\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, **\*\*query\_parameters**)

Alias for *update\_guest\_smtp\_notification\_settings\_by\_id*

**get\_guest\_smtp\_notification\_settings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, **\*\*query\_parameters**)

This API allows the client to get all the guest SMTP notification configurations. Filter: [name] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_guest\_smtp\_notification\_settings*

**get\_guest\_smtp\_notification\_settings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest SMTP notification configurations. Filter: [name] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_guest\_smtp\_notification\_settings\_generator*

**create\_guest\_smtp\_notification\_settings** (*connection\_timeout=None, default\_from\_address=None, notification\_enabled=None, password=None, smtp\_port=None, smtp\_server=None, use\_default\_from\_address=None, use\_password\_authentication=None, use\_tlsor\_ssl\_encryption=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest SMTP notification configuration.

### Parameters

- **connection\_timeout** (*string*) – Interval in seconds for all the SMTP client connections, property of the request body.
- **default\_from\_address** (*string*) – The default from email address to be used to send emails from, property of the request body.
- **notification\_enabled** (*boolean*) – Indicates if the email notification service is to be enabled, property of the request body.
- **password** (*string*) – Password of Secure SMTP server, property of the request body.
- **smtp\_port** (*string*) – Port at which SMTP Secure Server is listening, property of the request body.

- **smtp\_server** (*string*) – The SMTP server ip address or fqdn such as out-bound.mycompany.com, property of the request body.
- **use\_default\_from\_address** (*boolean*) – If the default from address should be used rather than using a sponsor user email address, property of the request body.
- **use\_password\_authentication** (*boolean*) – If configured to true, SMTP server authentication will happen using username/password, property of the request body.
- **use\_tlssr\_ssl\_encryption** (*boolean*) – If configured to true, SMTP server authentication will happen using TLS/SSL, property of the request body.
- **user\_name** (*string*) – Username of Secure SMTP server, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*connection\_timeout=None, default\_from\_address=None, notification\_enabled=None, password=None, smtp\_port=None, smtp\_server=None, use\_default\_from\_address=None, use\_password\_authentication=None, use\_tlssr\_ssl\_encryption=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_guest\_smtp\_notification\_settings*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest smtp notification configuration.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_ssid

### **class GuestSsid**

Identity Services Engine GuestSSID API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine GuestSSID API and exposes the API as native Python methods that return native Python objects.

Guest SSIDs are global objects that are referenced by Cisco ISE sponsor portals. Guest SSID API allows the client to add, delete, update and search guest SSID among other operations which are available from all the portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description  | Example Values                       |
|-------------|--------|----------|--|--------------------------------------|
| name        | String | Yes      | Resource Name. Name may contain alphanumeric or any of the following characters [ <code>_.-</code> ] | ssid_value                           |
| id          | String | No       | Resource UUID, mandatory for update  | 9132eedc-7910-4ffe-805e-3d3a366f7fb7 |
| description | String | No       |  |                                      |

**`get_guest_ssid_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest SSID by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_ssid\_by\_id*

**update\_guest\_ssid\_by\_id** (*id*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest SSID by ID.

#### Parameters

- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [*\_*.-], property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                   *\*\*query\_parameters*)  
 Alias for *update\_guest\_ssid\_by\_id*

**delete\_guest\_ssid\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes a guest SSID by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_guest\_ssid\_by\_id*

**get\_guest\_ssid** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*,  
                   *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest SSIDs. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_guest\_ssid*

**get\_guest\_ssid\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest SSIDs. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_ssid\_generator*

**create\_guest\_ssid** (*name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates a guest SSID.

### Parameters

- **name** (*string*) – Resource Name. Name may contain alphanumeric or any of the following characters [\_.-], property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_guest\_ssid*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest SSID.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_type

### **class GuestType**

Identity Services Engine GuestType API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine GuestType API and exposes the API as native Python methods that return native Python objects.

Guest Type API allows the client to add, delete, update and search guest types.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute                        | Type    | Required | Description   | Default Values | Example Values  |
|----------------------------------|---------|----------|---|----------------|---|
| name                             | String  | Yes      | Resource Name   |                | Contractor (default)                                    |
| id                               | String  | No       | Resource UUID, mandatory for update                             |                | 9f03a151-8c01-11e6-996c-525400b48521                    |
| description                      | String  | No       |   |                | Default settings allow network access for up to a year. |
| accessTime                       | List    | No       |   |                |   |
| • allowAccessOnSpecificDaysTimes | Boolean | No       | Enable Specific Day Time Limits                                 | false          |   |
| • defaultDuration                | Integer | No       |   | 90             |   |
| • durationTimeUnit               | Enum    | No       | Allowed values are: - DAYS, - HOURS, - MINUTES                  | DAYS           |   |
| • fromFirstLogin                 | Boolean | No       | When Account Duration starts from first login or specified date | false          |   |
| • maxAccountDuration             | Integer | No       | Maximum value of Account Duration                               | 365            |   |
| • dayTimeLimits                  | List    | No       | List of Time Ranges for account access                          |                |   |
| • dayTimeLimit                   | List    | No       | Time Ranges for account access                                  |                |   |
| • startTime                      | String  | No       | Start time in HH:mm format                                      | 09:00          |   |
| • endTime                        | String  | No       | End time in HH:mm format  | 17:00          |   |
| • days                           | List    | No       | List of Days  |                |   |
| • day                            | Enum    | No       | Value should be one of Week day. Allowed values are: -          |                |   |
| 1676                             |         |          | Sunday, - Monday, - Tuesday, - Wednesday, - Thursday, - Friday  | Chapter 1.     | The User Guide  |



**update\_guest\_type\_email** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest type email by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_email** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_type\_email*

**update\_guest\_type\_sms** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest type sms by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_sms** (*id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
              *\*\*query\_parameters*)

Alias for *update\_guest\_type\_sms*

**get\_guest\_type\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest type by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_type\_by\_id*

```
update_guest_type_by_id(id, access_time=None, description=None, expiration_notification=None, is_default_type=None, login_options=None, name=None, sponsor_groups=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a guest type.

#### Parameters

- **access\_time** (*object*) – accessTime, property of the request body.
- **description** (*string*) – description, property of the request body.
- **expiration\_notification** (*object*) – Expiration Notification Settings, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_default\_type** (*boolean*) – isDefaultType, property of the request body.
- **login\_options** (*object*) – loginOptions, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sponsor\_groups** (*list*) – sponsorGroups, property of the request body (list of strings).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, access_time=None, description=None, expiration_notification=None, is_default_type=None, login_options=None, name=None, sponsor_groups=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_guest_type_by_id`

```
delete_guest_type_by_id(id, headers=None, **query_parameters)
```

This API deletes a guest type.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_type\_by\_id*

**get\_guest\_type** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest types. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_type*

**get\_guest\_type\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest types. Filter: [name] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_type\_generator*

**create\_guest\_type** (*access\_time=None, description=None, expiration\_notification=None, is\_default\_type=None, login\_options=None, name=None, sponsor\_groups=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest type.

### Parameters

- **access\_time** (*object*) – accessTime, property of the request body.
- **description** (*string*) – description, property of the request body.
- **expiration\_notification** (*object*) – Expiration Notification Settings, property of the request body.
- **is\_default\_type** (*boolean*) – isDefaultType, property of the request body.
- **login\_options** (*object*) – loginOptions, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sponsor\_groups** (*list*) – sponsorGroups, property of the request body (list of strings).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*access\_time=None, description=None, expiration\_notification=None, is\_default\_type=None, login\_options=None, name=None, sponsor\_groups=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_guest\_type*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest type.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## guest\_user

### class GuestUser

Identity Services Engine GuestUser API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine GuestUser API and exposes the API as native Python methods that return native Python objects.

Guest User API allows the client to add, delete, update and search guest users among other operations which are available from the sponsor portal. Please note that each API description shows whether the API is supported in bulk operation. The bulk section is showing only 'create' bulk operation. However, all other operation which are bulk supported can be used in the same way.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description   |
|------------|------------------|-------------------|---|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version                           |
| 1          | 2.0              | 1.3               | Introducing new schema - not supporting 1.0 anymore |

### Resource Definition

| Attribute          | Type   | Required | Description                         | Default Values | Example Values                       |
|--------------------|--------|----------|-------------------------------------|----------------|--------------------------------------|
| name               | String | Yes      | Resource Name                       |                | guestUser                            |
| id                 | String | No       | Resource UUID, mandatory for update |                | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description        | String | No       |                                     |                | ERS Example user                     |
| customFields       | Map    | No       | Key value map                       |                | "some key" : "some value"            |
| guestType          | String | No       |                                     |                | Contractor                           |
| status             | String | No       |                                     |                |                                      |
| reasonForVisit     | String | No       |                                     |                |                                      |
| personBeingVisited | String | No       |                                     |                |                                      |
| sponsorUserName    | String | No       |                                     |                | Mr Spons                             |
| sponsorUserId      | String | No       |                                     |                |                                      |
| statusReason       | String | No       |                                     |                |                                      |
| portalId           | String | No       |                                     |                | 23423432523                          |
| guestAccessInfo    | List   | No       |                                     |                |                                      |

Continued on next page



Table 34 – continued from previous page

|                      |         |     |   |       |                    |
|----------------------|---------|-----|---|-------|--------------------|
| • validDays          | Integer | Yes | Number of days guest user is valid. To validate validDays property, Cisco ISE considers only date (not time) between fromDate and toDate properties |       | 90                 |
| • fromDate           | String  | No  |   |       | 07/29/2014 14:44   |
| • toDate             | String  | No  |   |       | 10/29/2014 17:30   |
| • location           | String  | No  |   |       | San Jose           |
| • ssid               | String  | No  |   |       |                    |
| • groupTag           | String  | No  |   |       |                    |
| GuestInfo            | List    | Yes |   |       |                    |
| • emailAddress       | String  | No  |   |       | email@some.uri.com |
| • enabled            | Boolean | Yes | This field is only for Get operation not applicable for Create, Update operations   | false |                    |
| • password           | String  | Yes |   |       | asdlkj324ew        |
| • phoneNumber        | String  | No  | Phone number should be E.164 format   |       | +13211239034       |
| • smsServiceProvider | String  | No  |   |       | Global Default     |

Continued on next page

Table 34 – continued from previous page

|                           |        |    |   |  |               |
|---------------------------|--------|----|---|--|---------------|
| •<br>userName             | String | No | If account needs be created with mobile number, please provide mobile number here |  | DS3ewdsa34wWE |
| • firstName               | String | No |   |  |               |
| • lastName                | String | No |   |  |               |
| • company                 | String | No |   |  |               |
| •<br>creationTime         | String | No |   |  |               |
| •<br>notificationLanguage | String | No |   |  |               |

**approve\_guest\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to approve a guest user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**approve\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *approve\_guest\_user\_by\_id*

**change\_sponsor\_password** (*portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to change the sponsor password.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**suspend\_guest\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to suspend a guest user by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`suspend_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`suspend_guest_user_by_name`*

**`reinstate_guest_user_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reinstate a guest user by name.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`reinstate_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`reinstate_guest_user_by_name`*

**`get_guest_user_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest user by name.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_guest_user_by_name`*

**`update_guest_user_by_name`** (*name*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *id=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user by name.

**Parameters**

- **`custom_fields`** (*object*) – Key value map, property of the request body.
- **`description`** (*string*) – description, property of the request body.
- **`guest_access_info`** (*object*) – `guestAccessInfo`, property of the request body.
- **`guest_info`** (*object*) – `guestInfo`, property of the request body.
- **`guest_type`** (*string*) – `guestType`, property of the request body.
- **`id`** (*string*) – id, property of the request body.
- **`name`** (*basestring*) – name, property of the request body.
- **`portal_id`** (*string*) – `portalId`, property of the request body.
- **`reason_for_visit`** (*string*) – `reasonForVisit`, property of the request body.
- **`sponsor_user_id`** (*string*) – `sponsorUserId`, property of the request body.
- **`sponsor_user_name`** (*string*) – `sponsorUserName`, property of the request body.
- **`status`** (*string*) – status, property of the request body.
- **`status_reason`** (*string*) – `statusReason`, property of the request body.
- **`name`** – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *id=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_by\_name*

**delete\_guest\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a guest user.

**Parameters**

- **`name`** (*basestring*) – name path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_user\_by\_name*

**reset\_guest\_user\_password\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reset the guest user password.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_password\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_guest\_user\_password\_by\_id*

**reinstate\_guest\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to reinstate a guest user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reinstate\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reinstate\_guest\_user\_by\_id*

**update\_guest\_user\_email** (*id*, *portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user email by ID.

#### Parameters

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_email** (*id*, *portal\_id*, *additional\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_email*

**update\_guest\_user\_sms** (*id*, *portal\_id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to update a guest user sms by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **portal\_id** (*basestring*) – portalId path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_sms`** (*id*, *portal\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *update\_guest\_user\_sms*

**`deny_guest_user_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deny a guest user by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deny_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *deny\_guest\_user\_by\_id*

**`get_guest_user_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a guest user by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_guest\_user\_by\_id*

**update\_guest\_user\_by\_id** (*id*, *custom\_fields=None*, *description=None*, *guest\_access\_info=None*, *guest\_info=None*, *guest\_type=None*, *name=None*, *portal\_id=None*, *reason\_for\_visit=None*, *sponsor\_user\_id=None*, *sponsor\_user\_name=None*, *status=None*, *status\_reason=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a guest user by ID.

### Parameters

- **custom\_fields** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_access\_info** (*object*) – guestAccessInfo, property of the request body.
- **guest\_info** (*object*) – guestInfo, property of the request body.
- **guest\_type** (*string*) – guestType, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_id** (*string*) – portalId, property of the request body.
- **reason\_for\_visit** (*string*) – reasonForVisit, property of the request body.
- **sponsor\_user\_id** (*string*) – sponsorUserId, property of the request body.
- **sponsor\_user\_name** (*string*) – sponsorUserName, property of the request body.
- **status** (*string*) – status, property of the request body.
- **status\_reason** (*string*) – statusReason, property of the request body.

- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, custom_fields=None, description=None, guest_access_info=None,
               guest_info=None, guest_type=None, name=None, portal_id=None, reason_for_visit=None,
               sponsor_user_id=None, sponsor_user_name=None, status=None, status_reason=None,
               headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *update\_guest\_user\_by\_id*

```
delete_guest_user_by_id (id, headers=None, **query_parameters)
```

This API deletes a guest user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_guest\_user\_by\_id*

**get\_guest\_users** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the guest users. Filter: [lastName, sponsor, creationTime, personBeingVisited, toDate, userName, firstName, emailAddress, phoneNumber, groupTag, name, company, guestType, status] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [firstName, lastName, emailAddress, name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_users*

**get\_guest\_users\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the guest users. Filter: [lastName, sponsor, creationTime, personBeingVisited, toDate, userName, firstName, emailAddress, phoneNumber, groupTag, name, company, guestType, status] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [firstName, lastName, emailAddress, name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_guest\_users\_generator*

**create\_guest\_user** (*custom\_fields=None, description=None, guest\_access\_info=None, guest\_info=None, guest\_type=None, name=None, portal\_id=None, reason\_for\_visit=None, sponsor\_user\_id=None, sponsor\_user\_name=None, status=None, status\_reason=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a guest user.

**Parameters**

- **custom\_fields** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_access\_info** (*object*) – guestAccessInfo, property of the request body.
- **guest\_info** (*object*) – guestInfo, property of the request body.
- **guest\_type** (*string*) – guestType, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_id** (*string*) – portalId, property of the request body.
- **reason\_for\_visit** (*string*) – reasonForVisit, property of the request body.
- **sponsor\_user\_id** (*string*) – sponsorUserId, property of the request body.
- **sponsor\_user\_name** (*string*) – sponsorUserName, property of the request body.
- **status** (*string*) – status, property of the request body.
- **status\_reason** (*string*) – statusReason, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*custom\_fields=None, description=None, guest\_access\_info=None, guest\_info=None, guest\_type=None, name=None, portal\_id=None, reason\_for\_visit=None, sponsor\_user\_id=None, sponsor\_user\_name=None, status=None, status\_reason=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_guest\_user*

**suspend\_guest\_user\_by\_id** (*id, additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to suspend a guest user by ID.

**Parameters**

- **additional\_data** (*list*) – additionalData, property of the request body (list of objects).
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**suspend\_by\_id** (*id, additional\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *suspend\_guest\_user\_by\_id*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the guest user.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_guest\_user** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_request\_for\_guest\_user*

**monitor\_bulk\_status\_guest\_user** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_guest\_user*

## hotspot\_portal

### class HotspotPortal

Identity Services Engine HotspotPortal API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine HotspotPortal API and exposes the API as native Python methods that return native Python objects.

Hotspot Guest Portal API provides the ability to create, read, update, delete and search hotspot guest portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

## Resource Definition

| Attribute  | Type    | Required | Description  | Default Values  | Example Values |
|--|---------|----------|--|---|----------------|
| name   | String  | Yes      | Resource Name  | Hotspot Guest Portal (default)  |                |
| id   | String  | No       | Resource UUID, mandatory for update  | b132a9ef-1491-4e01-9ad4-b48a9c72e1c7  |                |
| description  | String  | No       | Guests do not require username and password credentials to access the network, but you can optionally require an access code |   |                |
| portalTestUrl  | String  | No       | URL to bring up a test page for this portal  | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portal=b132a9ef-1491-4e01-9ad4-b48a9c72e1c7">https://{ise-ip}:8443/portal/PortalSetup.action?portal=b132a9ef-1491-4e01-9ad4-b48a9c72e1c7</a> |                |
| portalType   | Enum    | Yes      | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELF-REGGUEST, SPONSOR, SPONSORED, GUEST                                       | HOTSPOTGUEST  |                |
| settings   | List    | No       | Defines all of the settings groups available for a BYOD  |   |                |
| <ul style="list-style-type: none"> <li>portalSettings</li> </ul> | List    | No       | The port, interface, certificate, and other basic settings of a portal   |   |                |
| <ul style="list-style-type: none"> <li>httpsPort</li> </ul>      | Integer | Yes      | The port number that the allowed interfaces will listen on. Range from 8000 to 8999  | 8443  |                |

Continued on next page

Table 35 – continued from previous page

|                         |        |     |  |                                      |  |
|-------------------------|--------|-----|--|--------------------------------------|--|
| • allowedInterfaces     | Enum   | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 | [ “eth0”, “bond0” ]                  |  |
| • certificateGroupTag   | String | Yes | Logical name of the x.509 server certificate that will be used for the portal  | Default Portal Certificate Group     |  |
| • endpointIdentityGroup | String | Yes | Unique Id of the endpoint identity group where user’s devices will be added. Used only in Hotspot Portal                 | aa178bd0-8bff-11e6-996c-525400b48521 |  |
| • displayLang           | Enum   | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  | USEBROWSERLOCALE                     |  |
| • fallbackLanguage      | String | No  | Used when displayLang = USE-BROWSER-LOCALE   | English                              |  |
| • alwaysUsedLanguage    | String | No  | Used when displayLang = ALWAYSUSE  | English                              |  |
| • coaType               | Enum   | No  | Allowed Values: COAREAUTHENTICATE, COATERMINATE  | COAREAUTHENTICATE                    |  |
| • aupSettings           | List   | No  | Configuration of the Acceptable Use Policy (AUP) for a portal  |                                      |  |

Continued on next page

Table 35 – continued from previous page

|                           |         |    |   |                 |  |
|---------------------------|---------|----|---|-----------------|--|
| • requireAccessCode       | Boolean | No | Require the portal user to enter an access code. Only used in Hotspot portal  | false           |  |
| • accessCode              | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true)                            |                 |  |
| • includeAup              | Boolean | No | Require the portal user to read and accept an AUP   | true            |  |
| • requireScrolling        | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true                      | false           |  |
| • authSuccessSettings     | List    | No |   |                 |  |
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   | www.cisco.com   |  |
| • postLoginBannerSettings | List    | No |   |                 |  |

Continued on next page

Table 35 – continued from previous page

|                           |         |    |   |       |  |
|---------------------------|---------|----|---|-------|--|
| • includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |  |
| • supportInfoSettings     | List    | No | Portal Support Information Settings   |       |  |
| • includeSupportInfoPage  | Boolean | No | false   |       |  |
| • includeMacAddr          | Boolean | No | false   |       |  |
| • includeIpAddress        | Boolean | No | false   |       |  |
| • includeBrowserUserAgent | Boolean | No | false   |       |  |
| • includePolicyServer     | Boolean | No | false   |       |  |
| • includeFailureCode      | Boolean | No | false   |       |  |
| • emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. Allowed values: HIDE, DISPLAY-WITHNO-VALUE, DISPLAYWITH-DEFAULT-VALUE | HIDE  |  |

Continued on next page

Table 35 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  | 9eb421c0-8c01-11e6-996c-525400b48521     |  |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   | Default Blue theme                       |  |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  | Base 64 encoded string of Theme CSS file |  |

Continued on next page

Table 35 – continued from previous page

|                         |        |    |   |         |  |
|-------------------------|--------|----|---|---------|--|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |         |  |
| • bannerColor           | String | No | Hex value of color  | #0000FF |  |
| • bannerTextColor       | String | No | Banner Text color code from GUI   |         |  |
| • pageBackgroundColor   | String | No | Color code from GUI   |         |  |
| • pageLabelAndTextColor | String | No | Label and Text color from GUI   |         |  |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |         |  |
| • viewLanguage          | String | No | English   |         |  |

Continued on next page

Table 35 – continued from previous page

|                        |        |    |   |                                |  |
|------------------------|--------|----|---|--------------------------------|--|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |                                |  |
| • bannerTitle          | String | No | BYOD Portal   |                                |  |
| • contactText          | String | No | Contact Support   |                                |  |
| • footerElement        | String | No | Footer Element  |                                |  |
| • mobileLogoImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • desktopLogoImage     | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • bannerImage          | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • backgroundImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |

Continued on next page



Table 35 – continued from previous page

|                      |        |     |   |  |  |
|----------------------|--------|-----|---|--|--|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |  |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |  |
| • key                | String | Yes | ui_contact_ip_address_label                                   |  |  |
| • value              | String | Yes | SVAgYWRkcmVzczo=  |  |  |

**get\_hotspot\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a hotspot portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_hotspot\_portal\_by\_id*

**update\_hotspot\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a hotspot portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_hotspot\_portal\_by\_id*

**delete\_hotspot\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a hotspot portal by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_hotspot_portal_by_id`*

**`get_hotspot_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the hotspot portals. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_hotspot\_portal*

**`get_hotspot_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the hotspot portals. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_hotspot\_portal\_generator*

**create\_hotspot\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a hotspot portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a BYOD, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_hotspot\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the hotspot portal.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## ip\_to\_sgt\_mapping

**class IpToSgtMapping**

Identity Services Engine IPToSGTMapping API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine IPToSGTMapping API and exposes the API as native Python methods that return native Python objects.

IP To SGT Mapping API allows the client to add, delete, update, search and deploy IP to SGT mapping.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute     | Type   | Required  | Description                         | Example Values    |
|---------------|--------|---|-------------------------------------|-------------------|
| name          | String | Yes   | Resource Name                       | server1.cisco.com |
| id            | String | No  | Resource UUID, mandatory for update |                   |
| description   | String | No  |                                     |                   |
| deployTo      | String | Mandatory unless mappingGroup is set or unless deployType=ALL |                                     | network_device_id |
| deploy-Type   | Enum   | Yes   | Allowed values: ALL, ND, NDG        | ND                |
| host-Name     | String | Mandatory if hostIp is empty                                  |                                     | server1.cisco.com |
| sgt           | String | Mandatory unless mappingGroup is set                          |                                     | sgt_id            |
| hostIp        | String | Mandatory if hostName is empty – valid IPL                    |                                     |                   |
| mapping-Group | String | Mandatory unless sgt and deployTo and deployType are set      |                                     |                   |

**deploy\_ip\_to\_sgt\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy an IP to SGT mapping by ID. Only one Deploy process can run at any given time.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**deploy\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *deploy\_ip\_to\_sgt\_mapping\_by\_id*

**deploy\_all\_ip\_to\_sgt\_mapping** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy all the IP to SGT mappings. Only one Deploy process can run at any given time.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**deploy\_all** (*headers=None*, *\*\*query\_parameters*)

Alias for *deploy\_all\_ip\_to\_sgt\_mapping*

**get\_deploy\_status\_ip\_to\_sgt\_mapping** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to get the IP to SGT mapping deployment status. Deploy Status will show last Deploy command output. The information will be saved until the next Deploy command.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response



**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_deploy\_status** (*headers=None, \*\*query\_parameters*)

Alias for *get\_deploy\_status\_ip\_to\_sgt\_mapping*

**get\_ip\_to\_sgt\_mapping\_by\_id** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an IP to SGT mapping by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_by\_id*

**update\_ip\_to\_sgt\_mapping\_by\_id** (*id, deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to update an IP to SGT mapping by ID.

**Parameters**

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deployType=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **host\_ip** (*string*) – Mandatory if hostName is empty -valid IP, property of the request body.

- **host\_name** (*string*) – Mandatory if hostIp is empty, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **mapping\_group** (*string*) – Mapping Group Id. Mandatory unless sgt and deployTo and deployType are set, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *deploy\_to=None*, *deploy\_type=None*, *host\_ip=None*, *host\_name=None*, *mapping\_group=None*, *name=None*, *sgt=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_ip\_to\_sgt\_mapping\_by\_id*

**delete\_ip\_to\_sgt\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an IP to SGT mapping.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_ip_to_sgt_mapping_by_id`*

**`get_ip_to_sgt_mapping`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the IP to SGT mappings. Filter: [hostName, groupName, ip, sgtName] To search guest users by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [hostName, groupName, ip, sgtName].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping*

**`get_ip_to_sgt_mapping_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the IP to SGT mappings. Filter: [hostName, groupName, ip, sgtName] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [hostName, groupName, ip, sgtName].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_generator*

**create\_ip\_to\_sgt\_mapping** (*deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an IP to SGT mapping.

#### Parameters

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deployType=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **host\_ip** (*string*) – Mandatory if hostName is empty -valid IP, property of the request body.
- **host\_name** (*string*) – Mandatory if hostIp is empty, property of the request body.
- **mapping\_group** (*string*) – Mapping Group Id. Mandatory unless sgt and deployTo and deployType are set, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*deploy\_to=None, deploy\_type=None, host\_ip=None, host\_name=None, mapping\_group=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_ip\_to\_sgt\_mapping*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to IP to SGT mapping.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_ip\_to\_sgt\_mapping** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_ip\_to\_sgt\_mapping*

**monitor\_bulk\_status\_ip\_to\_sgt\_mapping** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_ip\_to\_sgt\_mapping*

## ip\_to\_sgt\_mapping\_group

### class IpToSgtMappingGroup

Identity Services Engine IPToSGTMappingGroup API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine IPToSGTMappingGroup API and exposes the API as native Python methods that return native Python objects.

IP To SGT Mapping Group API allows the client to add, delete, update, search and deploy IP to SGT mapping groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required  | Description                         | Default Values | Example Values    |
|-------------|--------|---|-------------------------------------|----------------|-------------------|
| name        | String | Yes   | Resource Name                       |                | groupA            |
| id          | String | No  | Resource UUID, mandatory for update |                |                   |
| description | String | No  |                                     |                |                   |
| deployTo    | String | Mandatory unless mappingGroup is set or unless deployType=ALL |                                     |                | network_device_id |
| deployType  | Enum   | Yes   | Allowed values: ALL, ND, NDG        | ALL            |                   |
| sgt         | String | Mandatory unless mappingGroup is set                          |                                     |                | sgt_id            |

**deploy\_ip\_to\_sgt\_mapping\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to deploy an IP to SGT mapping group by ID. Only one Deploy process can run at any given time.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:



- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deploy_all_ip_to_sgt_mapping_group`** (*headers=None, \*\*query\_parameters*)

This API allows the client to deploy all the IP to SGT mapping groups. Only one Deploy process can run at any given time.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_deploy_status_ip_to_sgt_mapping_group`** (*headers=None, \*\*query\_parameters*)

This API allows the client to get the IP to SGT mapping group deployment status. Deploy Status will show last Deploy command output. The information will be saved until the next Deploy command.

#### Parameters

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_ip_to_sgt_mapping_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an IP to SGT mapping group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_ip_to_sgt_mapping_group_by_id`

**`update_ip_to_sgt_mapping_group_by_id`** (*id*, *deploy\_to=None*, *deploy\_type=None*,  
*name=None*, *sgt=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update an IP to SGT mapping group by ID.

**Parameters**

- **`deploy_to`** (*string*) – Mandatory unless `mappingGroup` is set or unless `deployType=ALL`, property of the request body.
- **`deploy_type`** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.

- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *deploy\_to=None*, *deploy\_type=None*, *name=None*, *sgt=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_ip\_to\_sgt\_mapping\_group\_by\_id*

**delete\_ip\_to\_sgt\_mapping\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes an IP to SGT mapping group.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_ip\_to\_sgt\_mapping\_group\_by\_id*

**get\_ip\_to\_sgt\_mapping\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
*sortasc=None*, *sortdsc=None*, *headers=None*,  
*\*\*query\_parameters*)

This API allows the client to get all the IP to SGT mapping groups. Filter: [name, sgt-Name] To search guest users by using toDate column, follow the format: DD- MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, sgtName].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_ip\_to\_sgt\_mapping\_group*

**get\_ip\_to\_sgt\_mapping\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the IP to SGT mapping groups. Filter: [name, sgt-Name] To search guest users by using toDate column, follow the format: DD- MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, sgtName].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_ip\_to\_sgt\_mapping\_group\_generator*

**create\_ip\_to\_sgt\_mapping\_group** (*deploy\_to=None, deploy\_type=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an IP to SGT mapping group.

#### Parameters

- **deploy\_to** (*string*) – Mandatory unless mappingGroup is set or unless deployType=ALL, property of the request body.
- **deploy\_type** (*string*) – Allowed values: ALL, ND, NDG, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt** (*string*) – Mandatory unless mappingGroup is set, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*deploy\_to=None, deploy\_type=None, name=None, sgt=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_ip\_to\_sgt\_mapping\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the IP to SGT mapping group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_ip\_to\_sgt\_mapping\_group** (*operation\_type=None*, *resource\_media\_type=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to submit the bulk request.

### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_ip\_to\_sgt\_mapping\_group*

**monitor\_bulk\_status\_ip\_to\_sgt\_mapping\_group** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid, headers=None, \*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_ip\_to\_sgt\_mapping\_group*

## identity\_groups

### class IdentityGroups

Identity Services Engine IdentityGroups API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine IdentityGroups API and exposes the API as native Python methods that return native Python objects.

Identity Groups API allows the client to search identity groups.

#### Revision History



| Revision # | Resource Version | Cisco ISE Version | Description                           |
|------------|------------------|-------------------|---------------------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version             |
| 1          | 1.1              | 2.4               | Added Create and GetByName operations |

## Resource Definition

| At-tribute   | Type   | Re-quired | Description                         | Example Values                                    |
|--------------|--------|-----------|-------------------------------------|---|
| name         | String | Yes       | Resource Name                       | GuestType_Weekly (default)                        |
| id           | String | No        | Resource UUID, mandatory for update | 9efe2310-8c01-11e6-996c-525400b48521              |
| descrip-tion | String | No        |                                     | Identity group mirroring the guest type           |
| parent       | String | Yes       |                                     | NAC Group:NAC:IdentityGroups:User Identity Groups |

**get\_identity\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity group by name.

### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_group\_by\_name*

**get\_identity\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity group by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_group\_by\_id*

**update\_identity\_group\_by\_id** (*id*, *description=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an identity group.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id, description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *update\_identity\_group\_by\_id*

**get\_identity\_groups** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity groups. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_identity\_groups*

**`get_identity_groups_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity groups. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **`RestResponse`**: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *`get_identity_groups_generator`*

**`create_identity_group`** (*description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an identity group.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`parent`** (*string*) – parent, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`create`** (*description=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *`create_identity_group`*

**`get_version`** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to identity group.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**identity\_sequence****class IdentitySequence**

Identity Services Engine IdentitySequence API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine IdentitySequence API and exposes the API as native Python methods that return native Python objects.

Identity Sequence API allows the client to add, delete, update and search Identity sequences.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |
| 1          | 1.1              | 2.4               | Added GetByName operation |

**Resource Definition**

| Attribute                        | Type    | Re-<br>quired | Description   | Example Values   |
|----------------------------------|---------|---------------|---|--|
| name                             | String  | Yes           | Resource Name   | All_User_ID_Stores   |
| id                               | String  | No            | Resource UUID, mandatory for update   | 93246270-8c01-11e6-996c-525400b48521   |
| description                      | String  | No            |   | A built-in Identity Sequence to include all User Identity Stores   |
| breakOn-StoreFail                | Boolean | Yes           | Do not access other stores in the sequence If a selected identity store cannot be accessed for authentication | false  |
| certificateAuthenticationProfile | String  | Yes           | Certificate Authentication Profile, empty if doesn't exist  | Preloaded_Certificate_Profile  |
| idSeqItem                        | List    | Yes           | List of id stores comprised of id store name and order  | [ { "idstore": "Internal Users", "order": 1 }, { "idstore": "All_AD_Join_Points", "order": 2 }, { "idstore": "Guest Users", "order": 3 } ] |

**get\_identity\_sequence\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity sequence by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_sequence\_by\_name*

**get\_identity\_sequence\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an identity sequence by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_identity\_sequence\_by\_id*

**update\_identity\_sequence\_by\_id** (*id*, *break\_on\_store\_fail=None*, *certificate\_authentication\_profile=None*, *description=None*, *id\_seq\_item=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an identity sequence. Partial update is not supported.

### Parameters

- **break\_on\_store\_fail** (*boolean*) – breakOnStoreFail, property of the request body.
- **certificate\_authentication\_profile** (*string*) – certificateAuthenticationProfile, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **id\_seq\_item** (*list*) – idSeqItem, property of the request body (list of objects).
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *break\_on\_store\_fail=None*, *certificate\_authentication\_profile=None*, *description=None*, *id\_seq\_item=None*, *name=None*, *parent=None*, *headers=None*, *payload=None*, *active\_validation=True*, **\*\*query\_parameters**)

Alias for *update\_identity\_sequence\_by\_id*

**delete\_identity\_sequence\_by\_id** (*id*, *headers=None*, **\*\*query\_parameters**)

This API deletes an identity sequence.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, **\*\*query\_parameters**)

Alias for *delete\_identity\_sequence\_by\_id*

**get\_identity\_sequence** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_identity\_sequence*

**get\_identity\_sequence\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the identity sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_identity\_sequence\_generator*

**create\_identity\_sequence** (*break\_on\_store\_fail=None, certificate\_authentication\_profile=None, description=None, id\_seq\_item=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an identity sequence.

**Parameters**

- **break\_on\_store\_fail** (*boolean*) – breakOnStoreFail, property of the request body.
- **certificate\_authentication\_profile** (*string*) – certificateAuthenticationProfile, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id\_seq\_item** (*list*) – idSeqItem, property of the request body (list of objects).
- **name** (*string*) – name, property of the request body.
- **parent** (*string*) – parent, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*break\_on\_store\_fail=None, certificate\_authentication\_profile=None, description=None, id\_seq\_item=None, name=None, parent=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_identity\_sequence*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the identity sequence.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## internal\_user

### class InternalUser

Identity Services Engine InternalUser API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine InternalUser API and exposes the API as native Python methods that return native Python objects.

Internal User API allows the client to add, delete, update and search internal users.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                              | Revision Modification | Revision Modification              |
|------------|------------------|-------------------|--|-----------------------|------------------------------------|
|            |                  |                   |  | Attribute             | Description                        |
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version                |                       |                                    |
| 1          | 1.1              | 2.6               | Support new attribute Proxy Dead Timeout | proxyTime-out         | Added int Attribute 'proxyTimeout' |

## Resource Definition

| Attribute          | Type    | Required | Description   | Default Values | Example Values                       |
|--------------------|---------|----------|---|----------------|--------------------------------------|
| name               | String  | Yes      | Resource Name   |                | name                                 |
| id                 | String  | No       | Resource UUID, mandatory for update   |                | b24b09e2-16f8-4e48-ace1-2c262a9449f1 |
| description        | String  | No       |   |                | description                          |
| changePassword     | Boolean | Yes      |   | true           |                                      |
| email              | String  | No       |   |                | email@domain.com                     |
| enablePassword     | String  | No       | EnablePassword field is added in ISE 2.0 to support T+  |                | enablePassword                       |
| enabled            | Boolean | Yes      | Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSObjectURL]?filter=enabled.EQ.Enabled' |                | true                                 |
| custom-Attributes  | String  | No       | Key value map   |                | { "key1" : "value1" }                |
| firstName          | String  | No       |   |                | firstName                            |
| identity-Groups    | String  | No       | CSV of identity group IDs   |                | identity-Groups                      |
| lastName           | String  | No       |   |                | lastName                             |
| password           | String  | No       |   |                | password                             |
| passwordID-Store   | String  | Yes      | The id store where the internal user's password is kept   | Internal Users |                                      |
| expiry-DateEnabled | Boolean | No       |   | false          |                                      |
| expiry-Date        | String  | No       | To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD'   |                | 2021-05-19                           |

**get\_internal\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an internal user by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_by\_name*

**update\_internal\_user\_by\_name** (*name*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *id=None*, *identity\_groups=None*, *last\_name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an internal user by name.

#### Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSOb jectURL]?filter=enabled.EQ.Enabled', property of the request body.
- **expiry\_date** (*string*) – To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD', property of the request body.

- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **id** (*string*) – id, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user’s password is kept, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *id=None*, *identity\_groups=None*, *last\_name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_internal\_user\_by\_name*

**delete\_internal\_user\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes an internal user by name.

### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_internal\_user\_by\_name*

**get\_internal\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get an internal user by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_by\_id*



```
update_internal_user_by_id(id, change_password=None, custom_attributes=None, description=None, email=None, enable_password=None, enabled=None, expiry_date=None, expiry_date_enabled=None, first_name=None, identity_groups=None, last_name=None, name=None, password=None, password_idstore=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update an internal user by ID.

#### Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be ‘Enabled’ or ‘Disabled’. The values are case sensitive. For example, ‘[ERSOb jectURL]?filter=enabled.EQ.Enabled’, property of the request body.
- **expiry\_date** (*string*) – To store the internal user’s expiry date information. It’s format is = ‘YYYY-MM-DD’, property of the request body.
- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user’s password is kept, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *identity\_groups=None*, *last\_name=None*, *name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_internal\_user\_by\_id*

**delete\_internal\_user\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an internal user by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_internal\_user\_by\_id*

**get\_internal\_user** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the internal users. Filter: [firstName, lastName, identityGroup, name, description, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user*

**get\_internal\_user\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the internal users. Filter: [firstName, lastName, identityGroup, name, description, email, enabled] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_internal\_user\_generator*

**create\_internal\_user** (*change\_password=None*, *custom\_attributes=None*, *description=None*, *email=None*, *enable\_password=None*, *enabled=None*, *expiry\_date=None*, *expiry\_date\_enabled=None*, *first\_name=None*, *identity\_groups=None*, *last\_name=None*, *name=None*, *password=None*, *password\_idstore=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates an internal user.

## Parameters

- **change\_password** (*boolean*) – changePassword, property of the request body.
- **custom\_attributes** (*object*) – Key value map, property of the request body.
- **description** (*string*) – description, property of the request body.
- **email** (*string*) – email, property of the request body.
- **enable\_password** (*string*) – enablePassword, property of the request body.
- **enabled** (*boolean*) – Whether the user is enabled/disabled. To use it as filter, the values should be 'Enabled' or 'Disabled'. The values are case sensitive. For example, '[ERSObjectURL]?filter=enabled.EQ.Enabled', property of the request body.
- **expiry\_date** (*string*) – To store the internal user's expiry date information. It's format is = 'YYYY-MM-DD', property of the request body.
- **expiry\_date\_enabled** (*boolean*) – expiryDateEnabled, property of the request body.
- **first\_name** (*string*) – firstName, property of the request body.
- **identity\_groups** (*string*) – CSV of identity group IDs, property of the request body.
- **last\_name** (*string*) – lastName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **password** (*string*) – password, property of the request body.
- **password\_idstore** (*string*) – The id store where the internal user's password is kept, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*change\_password=None, custom\_attributes=None, description=None, email=None, enable\_password=None, enabled=None, expiry\_date=None, expiry\_date\_enabled=None, first\_name=None, identity\_groups=None, last\_name=None, name=None, password=None, password\_idstore=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [`create\_internal\_user`](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the internal user.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** [\*RestResponse\*](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## licensing

### **class Licensing**

Identity Services Engine Licensing API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Licensing API and exposes the API as native Python methods that return native Python objects.

**get\_connection\_type** (*headers=None, \*\*query\_parameters*)

Get connection type.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_eval_license_info`** (*headers=None, \*\*query\_parameters*)

Get registration information.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_feature_to_tier_mapping`** (*headers=None, \*\*query\_parameters*)

Get feature to tier mapping.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of `MyDict` objects. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_registration_info`** (*headers=None, \*\*query\_parameters*)

Get registration information.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`create_registration_info`** (*connection\_type=None, registration\_type=None, ssm\_on\_prem\_server=None, tier=None, token=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

License Configure registration information.

**Parameters**

- **`connection_type`** (*string*) – `connectionType`, property of the request body. Available values are 'HTTP\_DIRECT', 'PROXY', 'SSM\_ONPREM\_SERVER' and 'TRANSPORT\_GATEWAY'.
- **`registration_type`** (*string*) – `registrationType`, property of the request body. Available values are 'DEREGISTER', 'REGISTER', 'RENEW' and 'UPDATE'.
- **`ssm_on_prem_server`** (*string*) – If connection type is selected as SSM\_ONPREM\_SERVER, then IP address or the hostname (or FQDN) of the SSM On-Prem server Host., property of the request body.
- **`tier`** (*list*) – `tier`, property of the request body (list of strings. Available values are 'ADVANTAGE', 'DEVICEADMIN', 'ESSENTIAL', 'PREMIER' and 'VM').



- **token** (*string*) – token, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(list): A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_smart\_state** (*headers=None, \*\*query\_parameters*)  
Get smart license information.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**configure\_smart\_state** (*headers=None, \*\*query\_parameters*)  
License Configure smart state information.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(list): A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_tier\_state\_info** (*headers=None, \*\*query\_parameters*)

Get tier state information.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(list): A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_tier\_state\_info** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Applicable values for name & status parameters: name: ESSENTIAL, ADVANTAGE, PREMIER, DE-VICEADMIN status: ENABLED, DISABLED .

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## mdm

### class Mdm

Identity Services Engine MDM API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine MDM API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_endpoints** (*headers=None*, *\*\*query\_parameters*)  
getEndpoints.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_endpoints*

**get\_endpoint\_by\_mac\_address** (*headers=None, \*\*query\_parameters*)

*getEndpointByMacAddress.*

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_endpoints\_by\_type** (*headers=None, \*\*query\_parameters*)

*getEndpointsByType.*

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_endpoints\_by\_os\_type** (*headers=None, \*\*query\_parameters*)  
`getEndpointsByOsType`.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## misc

### class Misc

Identity Services Engine Misc API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Misc API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 MNT REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_mnt*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_active\_count** (*headers=None, \*\*query\_parameters*)

ActiveCount.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_active\_list** (*headers=None, \*\*query\_parameters*)

ActiveList.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_auth\_list** (*headers=None, \*\*query\_parameters*)  
Session/AuthList.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_posture\_count** (*headers=None, \*\*query\_parameters*)  
PostureCount.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_profiler_count`** (*headers=None, \*\*query\_parameters*)  
ProfilerCount.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_mac`** (*mac, headers=None, \*\*query\_parameters*)  
Sessions by MAC.

**Parameters**

- **`mac`** (*basestring*) – mac path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_username`** (*username*, *headers=None*, *\*\*query\_parameters*)  
Sessions by Username.

**Parameters**

- **`username`** (*basestring*) – username path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_nas_ip`** (*nas\_ipv4*, *headers=None*, *\*\*query\_parameters*)  
Sessions by NAS IP.

**Parameters**

- **`nas_ipv4`** (*basestring*) – nas\_ipv4 path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_endpoint_ip`** (*endpoint\_ipv4*, *headers=None*, *\*\*query\_parameters*)  
Sessions by Endpoint IP.

**Parameters**

- **`endpoint_ipv4`** (*basestring*) – `endpoint_ipv4` path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sessions_by_session_id`** (*session\_id*, *headers=None*, *\*\*query\_parameters*)  
Sessions by SessionID.

**Parameters**

- **`session_id`** (*basestring*) – `session_id` path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_all_sessions`** (*headers=None, \*\*query\_parameters*)

Delete All Sessions.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_mnt_version`** (*headers=None, \*\*query\_parameters*)

MNT Version.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_failure_reasons`** (*headers=None, \*\*query\_parameters*)  
FailureReasons.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_authentication_status_by_mac`** (*mac, records, seconds, headers=None, \*\*query\_parameters*)

AuthenticationStatus by MAC.

**Parameters**

- **`mac`** (*basestring*) – MAC path parameter.
- **`seconds`** (*basestring*) – SECONDS path parameter.
- **`records`** (*basestring*) – RECORDS path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`session_reauthentication_by_mac`** (*endpoint\_mac*, *psn\_name*, *reauth\_type*, *headers=None*,  
*\*\*query\_parameters*)

Session Reauthentication by MAC.

**Parameters**

- **`psn_name`** (*basestring*) – PSN\_NAME path parameter.
- **`endpoint_mac`** (*basestring*) – ENDPOINT\_MAC path parameter.
- **`reauth_type`** (*basestring*) – REAUTH\_TYPE path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`session_disconnect`** (*disconnect\_type*, *endpoint\_ip*, *mac*, *nas\_ipv4*, *psn\_name*, *headers=None*,  
*\*\*query\_parameters*)

Session Disconnect.

**Parameters**

- **`endpoint_ip`** (*basestring*) – ENDPOINT\_IP path parameter.

- **psn\_name** (*basestring*) – PSN\_NAME path parameter.
- **mac** (*basestring*) – MAC path parameter.
- **disconnect\_type** (*basestring*) – DISCONNECT\_TYPE path parameter.
- **nas\_ipv4** (*basestring*) – NAS\_IPV4 path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_account\_status\_by\_mac** (*duration, mac, headers=None, \*\*query\_parameters*)  
AccountStatus by MAC.

#### Parameters

- **mac** (*basestring*) – mac path parameter.
- **duration** (*basestring*) – duration path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

## my\_device\_portal

### class MyDevicePortal

Identity Services Engine MyDevicePortal API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine MyDevicePortal API and exposes the API as native Python methods that return native Python objects.

My Device Portal API provides the ability to create, read, update, delete and search my device portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Required | Description                                 | Default Values | Example Values  |
|---------------|--------|----------|---|----------------|---|
| name          | String | Yes      | Resource Name                               |                | My Devices Portal (default)   |
| id            | String | No       | Resource UUID, mandatory for update         |                | 901f1b37-4a2f-46d9-8653-d925d2dde3aa  |
| description   | String | No       |   |                | Default portal used by employees to register and manage their personal devices                                    |
| portalTestUrl | String | No       | URL to bring up a test page for this portal |                | <a href="https://{ise-ip}:8443/mydevicesportal/PortalSetup">https://{ise-ip}:8443/mydevicesportal/PortalSetup</a> |

Continued on next page

Table 36 – continued from previous page

|                         |         |     |  |          |                                      |
|-------------------------|---------|-----|--|----------|--------------------------------------|
| portalType              | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELF-REGGUEST, SPONSOR, SPONSORED, GUEST                                   | MYDEVICE |                                      |
| settings                | List    | No  | Defines all of the settings groups available for a Mydevice portal   |          |                                      |
| • portalSettings        | List    | No  | The port, interface, certificate, and other basic settings of a portal   |          |                                      |
| • httpsPort             | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                                      |          | 8443                                 |
| • allowedInterfaces     | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 |          | [ “eth0”, “bond0” ]                  |
| • certificateGroupTag   | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  |          | Default Portal Certificate Group     |
| • endpointIdentityGroup | String  | Yes | Unique Id of the endpoint identity group where user’s devices will be added. Used only in Hotspot Portal                 |          | aa178bd0-8bff-11e6-996c-525400b48521 |

Continued on next page



Table 36 – continued from previous page

|                                    |         |    |  |        |                  |
|------------------------------------|---------|----|--|--------|------------------|
| • displayLang                      | Enum    | No | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  |        | USEBROWSERLOCALE |
| • fallbackLanguage                 | String  | No | Used when displayLang = USE-BROWSER-LOCALE   |        | English          |
| • alwaysUsedLanguage               | String  | No | Used when displayLang = ALWAYSUSE  |        | English          |
| • loginPageSettings                | List    | No | Portal Login Page settings groups follow   |        |                  |
| • maxFailedAttemptsBeforeRateLimit | Integer | No | Maximum failed login attempts before rate limiting   | 5      |                  |
| • timeBetweenLoginsDuringRateLimit | Integer | No |  | 2      |                  |
| • includeAup                       | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login   | false  |                  |
| • aupDisplay                       | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK - ONPAGE, - ASLINK | ASLINK |                  |
| • requireAupAcceptance             | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true   | false  |                  |

Continued on next page

Table 36 – continued from previous page

|                                  |         |    |  |            |  |
|----------------------------------|---------|----|--|------------|--|
| • requireScrolling               | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • aupSettings                    | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| • displayFrequency               | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| • includeAup                     | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| • requireScrolling               | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • displayFrequencyIntervalDays   | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |
| • employeeChangePasswordSettings | List    | No |  |            |  |
| • allowEmployeeToChangePwd       | Boolean | No | Allow employees to change their own passwords  | false      |  |

Continued on next page

Table 36 – continued from previous page

|                              |         |    |   |       |      |
|------------------------------|---------|----|---|-------|------|
| •<br>postLoginBannerSettings | List    | No |   |       |      |
| •<br>includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |      |
| •<br>supportInfoSettings     | List    | No | Portal Support Information Settings                                     |       |      |
| •<br>includeSupportInfoPage  | Boolean | No |   | false |      |
| •<br>includeMacAddr          | Boolean | No |   | false |      |
| •<br>includeIpAddress        | Boolean | No |   | false |      |
| •<br>includeBrowserUserAgent | Boolean | No |   | false |      |
| •<br>includePolicyServer     | Boolean | No |   | false |      |
| •<br>includeFailureCode      | Boolean | No |   | false |      |
| •<br>emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |       | HIDE |

Continued on next page

Table 36 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 36 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 36 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | My Devices Portal              |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 36 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_my\_device\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a my device portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_my\_device\_portal\_by\_id*

**update\_my\_device\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a my device portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a Mydevice portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_my\_device\_portal\_by\_id*

**delete\_my\_device\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a my device portal by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_my_device_portal_by_id`*

**`get_my_device_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the my device portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_my\_device\_portal*

**`get_my_device_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the my device portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_my\_device\_portal\_generator*

**create\_my\_device\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a my device portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a Mydevice portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_my\_device\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the my device portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## native\_suppliant\_profile

**class NativeSuppliantProfile**

Identity Services Engine NativeSuppliantProfile API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine NativeSuppliantProfile API and exposes the API as native Python methods that return native Python objects.

Native suppliant profile API provides the ability to update, delete and search native suppliant profiles.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

## Resource Definition

| Attribute               | Type   | Required | Description  | Example Values   |
|-------------------------|--------|----------|--|--|
| name                    | String | Yes      | Resource Name  | Cisco-ISE-NSP  |
| id                      | String | No       | Resource UUID, mandatory for update  | b8ce01e6-b150-4d4e-9698-40e48d5e0197   |
| description             | String | No       |  | Pre-configured Native Supplicant Profile. The SSID Will Need To Be Customized For Your Environment |
| wirelessProfiles        | List   | Yes      | List of Wireless profiles  |  |
| • ssid                  | String | Yes      | SSID for the wireless profile  | ISE  |
| • allowedProtocol       | Enum   | Yes      | Allowed protocol for the wireless profile.                                     | TLS  |
| • certificateTemplateId | String | No       | Certificate template ID  | 0ca8f1b6-500d-560b-e053-75189a0ab0d1   |
| • actionType            | Enum   | Yes      | Action type for WifiProfile.   | UPDATE   |
| • previousSsid          | String | Yes      | Previous ssid for WifiProfile (required for updating existing WirelessProfile) | ssid1  |

**get\_native\_suppliant\_profile\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a native supplicant profile by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_native\_suppllicant\_profile\_by\_id*

**`update_native_suppllicant_profile_by_id`** (*id*, *description=None*, *name=None*, *wireless\_profiles=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a native suppllicant profile.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`wireless_profiles`** (*list*) – wirelessProfiles, property of the request body (list of objects).
- **`id`** – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id**(*id*, *description=None*, *name=None*, *wireless\_profiles=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_native\_suppllicant\_profile\_by\_id*

**delete\_native\_suppllicant\_profile\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes a native suppllicant profile.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *delete\_native\_suppllicant\_profile\_by\_id*

**get\_native\_suppllicant\_profile**(*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the native suppllicant profiles.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_native_suppllicant_profile`*

**`get_native_suppllicant_profile_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the native suppllicant profiles.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_native_suppllicant_profile_generator`*

**`get_version`** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the native suppllicant profile.

#### Parameters



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

### network\_access\_authentication\_rules

#### class NetworkAccessAuthenticationRules

Identity Services Engine Network Access - Authentication Rules API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Authentication Rules API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_authentication\_rules** (*policy\_id*, *headers=None*,  
*\*\*query\_parameters*)

Network Access Get authentication rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authentication\_rules*

**create\_network\_access\_authentication\_rule** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Create authentication rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authentication policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **identity\_source\_name** (*string*) – Identity source name from the identity stores, property of the request body.
- **if\_auth\_fail** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **if\_process\_fail** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **if\_user\_not\_found** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **link** (*object*) – link, property of the request body.
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *create\_network\_access\_authentication\_rule*

**reset\_hit\_counts\_network\_access\_authentication\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for Authentication Rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
 Alias for *reset\_hit\_counts\_network\_access\_authentication\_rules*

**get\_network\_access\_authentication\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get rule attributes.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_network_access_authentication_rule_by_id`

**`update_network_access_authentication_rule_by_id`** (*id*, *policy\_id*, *identity\_source\_name=None*, *if\_auth\_fail=None*, *if\_process\_fail=None*, *if\_user\_not\_found=None*, *link=None*, *rule=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update rule.

**Parameters**

- **`identity_source_name`** (*string*) – Identity source name from the identity stores, property of the request body.
- **`if_auth_fail`** (*string*) – Action to perform when authentication fails such as Bad credentials, disabled user and so on, property of the request body.
- **`if_process_fail`** (*string*) – Action to perform when ISE is unable to access the identity database, property of the request body.
- **`if_user_not_found`** (*string*) – Action to perform when user is not found in any of identity stores, property of the request body.
- **`link`** (*object*) – link, property of the request body.
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id, policy\_id, identity\_source\_name=None, if\_auth\_fail=None, if\_process\_fail=None, if\_user\_not\_found=None, link=None, rule=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *update\_network\_access\_authentication\_rule\_by\_id*

**delete\_network\_access\_authentication\_rule\_by\_id** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Network Access Delete rule.

**Parameters**

- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`id`** (*basestring*) – id path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *delete\_network\_access\_authentication\_rule\_by\_id*

## network\_access\_authorization\_exception\_rules

```
class NetworkAccessAuthorizationExceptionRules
```

Identity Services Engine Network Access - Authorization Exception Rules API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Authorization Exception Rules API and exposes the API as native Python methods that return native Python objects.

```
get_network_access_local_exception_rules(policy_id, headers=None,
                                         **query_parameters)
```

Network Access Get local exception rules.

## Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

```
get_all (policy_id, headers=None, **query_parameters)
```

Alias for `get_network_access_local_exception_rules`

[illegible]

**Network Access** Create local authorization exception rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model `ConditionReference` or dynamically built conditions which are not stored in the conditions Library, using models `ConditionAttributes`, `ConditionAndBlock`, `ConditionOrBlock` . .

## Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).

- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_network\_access\_local\_exception\_rule*

**reset\_hit\_counts\_network\_access\_local\_exceptions** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for local exceptions.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts\_by\_id**(*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *reset\_hit\_counts\_network\_access\_local\_exceptions*

**get\_network\_access\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get local exception rule attributes.

Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_local\_exception\_rule\_by\_id*

**update\_network\_access\_local\_exception\_rule\_by\_id**(*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update local exception rule.

Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).



- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_network\_access\_local\_exception\_rule\_by\_id*

**delete\_network\_access\_local\_exception\_rule\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete local exception rule.

### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id, policy\_id, headers=None, \*\*query\_parameters*)

Alias for *`delete_network_access_local_exception_rule_by_id`*

## **`network_access_authorization_global_exception_rules`**

**`class NetworkAccessAuthorizationGlobalExceptionRules`**

Identity Services Engine Network Access - Authorization Global Exception Rules API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Authorization Global Exception Rules API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_policy_set_global_exception_rules`** (*headers=None, \*\*query\_parameters*)

Network Access Get global exception rules.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *`get_network_access_policy_set_global_exception_rules`*

```
create_network_access_policy_set_global_exception_rule (link=None, profile=None, rule=None, security_group=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Network Access Create global exception authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

#### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (link=None, profile=None, rule=None, security_group=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `create_network_access_policy_set_global_exception_rule`

```
reset_hit_counts_network_access_global_exceptions (headers=None, **query_parameters)
```

Network Access Reset HitCount for Global Exceptions.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)

Alias for *reset\_hit\_counts\_network\_access\_global\_exceptions*

**get\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Network Access Get global exception rule attributes.

**Parameters**

- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_by_id(id, headers=None, **query_parameters)
```

Alias for `get_network_access_policy_set_global_exception_rule_by_id`

```
update_network_access_policy_set_global_exception_rule_by_id(id,
                                                             link=None,
                                                             profile=None,
                                                             rule=None,
                                                             secu-
                                                             rity_group=None,
                                                             head-
                                                             ers=None,
                                                             pay-
                                                             load=None,
                                                             ac-
                                                             tive_validation=True,
                                                             **query_parameters)
```

Network Access Update global exception authorization rule.

#### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id*

**delete\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete global exception authorization rule.

#### Parameters

- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id*

## network\_access\_authorization\_rules

### class NetworkAccessAuthorizationRules

Identity Services Engine Network Access - Authorization Rules API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Authorization Rules API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_authorization\_rules** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get authorization rules.

#### Parameters

- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authorization\_rules*

**`create_network_access_authorization_rule`** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Create authorization rule: Rule must include name and condition. Condition has hierarchical structure which define a set of conditions for which authorization policy rule could be match. Condition can be either reference to a stored Library condition, using model ConditionReference or dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

**Parameters**

- **`link`** (*object*) – link, property of the request body.
- **`profile`** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **`rule`** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **`security_group`** (*string*) – Security group used in authorization policies, property of the request body.
- **`policy_id`** (*basestring*) – policyId path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`create`** (*policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *create\_network\_access\_authorization\_rule*

**`reset_hit_counts_network_access_authorization_rules`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Reset HitCount for Authorization Rules.

**Parameters**

- **`policy_id`** (*basestring*) – `policyId` path parameter. Policy id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`reset_hit_counts_by_id`** (*policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_network\_access\_authorization\_rules*

**`get_network_access_authorization_rule_by_id`** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Get authorization rule attributes.

**Parameters**

- **`policy_id`** (*basestring*) – `policyId` path parameter. Policy id.
- **`id`** (*basestring*) – `id` path parameter. Rule id.



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_authorization\_rule\_by\_id*

**update\_network\_access\_authorization\_rule\_by\_id** (*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update authorization rule.

### Parameters

- **link** (*object*) – link, property of the request body.
- **profile** (*list*) – The authorization profile/s, property of the request body (list of strings).
- **rule** (*object*) – Common attributes in rule authentication/authorization, property of the request body.
- **security\_group** (*string*) – Security group used in authorization policies, property of the request body.
- **policy\_id** (*basestring*) – policyId path parameter. Policy id.
- **id** (*basestring*) – id path parameter. Rule id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *policy\_id*, *link=None*, *profile=None*, *rule=None*, *security\_group=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_network\_access\_authorization\_rule\_by\_id*

**`delete_network_access_authorization_rule_by_id`**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete authorization rule.

**Parameters**

- **`policy_id`** (*basestring*) – `policyId` path parameter. Policy id.
- **`id`** (*basestring*) – `id` path parameter. Rule id.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *policy\_id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_authorization\_rule\_by\_id*

## network\_access\_conditions

### class NetworkAccessConditions

Identity Services Engine Network Access - Conditions API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Conditions API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_conditions** (*headers=None, \*\*query\_parameters*)

Network Access Returns all library conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_conditions*

**create\_network\_access\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates a library condition: Library Condition has hierarchical structure which define a set of condition for which authentication and authorization policy rules could be match. Condition can be compose from single dictionary attribute name and value using model LibraryConditionAttributes , or from combination of dictionary attributes with logical operation of AND/OR between them, using models: LibraryConditionAndBlock or LibraryConditionOrBlock . When using AND/OR blocks, the condition will include inner layers inside these blocks, these layers are built using the inner condition models: ConditionAttributes , ConditionAndBlock , ConditionOrBlock , that represent dynamically built Conditions which are not stored in the conditions Library, or using ConditionReference , which includes an ID to existing stored condition in the library. The LibraryCondition models can only be used in the

outer-most layer (root of the condition) and must always include the condition name. When using one of the 3 inner condition models ( ConditionAttributes, ConditionAndBlock, ConditionOrBlock ), condition name cannot be included in the request, since these will not be stored in the conditions library, and used only as inner members of the root condition. When using ConditionReference model in inner layers, the condition name is not required. ConditionReference objects can also include a reference ID to a condition of type TimeAndDate . .

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttr” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate con-dition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no spe-cific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.

- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None,
        dates_range=None, dates_range_exception=None, description=None,
        dictionary_name=None, dictionary_value=None, hours_range=None,
        hours_range_exception=None, id=None, is_negate=None, link=None, name=None, operator=None,
        week_days=None, week_days_exception=None, headers=None, payload=None,
        active_validation=True, **query_parameters)
```

Alias for *create\_network\_access\_condition*

```
get_network_access_conditions_for_authentication_rules (headers=None,
                                                         **query_parameters)
```

Network Access Returns list of library conditions for Authentication rules scope.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_network_access_conditions_for_authorization_rules`** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of library conditions for Authorization rules scope.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_network_access_condition_by_name`** (*name, headers=None, \*\*query\_parameters*)

Network Access Returns a library condition.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_condition\_by\_name*

**`update_network_access_condition_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update library condition using condition name.

## Parameters

- **`attribute_name`** (*string*) – Dictionary attribute name, property of the request body.
- **`attribute_value`** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **`children`** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **`condition_type`** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **`dates_range`** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for

start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.

- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **name** – name path parameter. Condition name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- headers(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_name`** (*name*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *id=None*, *is\_negate=None*, *link=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_condition\_by\_name*

**`delete_network_access_condition_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete a library condition using condition Name.

**Parameters**

- **`name`** (*basestring*) – name path parameter. Condition name.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_access\_condition\_by\_name*

**`get_network_access_conditions_for_policy_sets`** (*headers=None*, *\*\*query\_parameters*)

Network Access Returns list of library conditions for PolicySet scope.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_for\_policy\_sets** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_conditions\_for\_policy\_sets*

**get\_network\_access\_condition\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Network Access Returns a library condition.

**Parameters**

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_condition\_by\_id*

```
update_network_access_condition_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Network Access Update library condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggreation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*basestring*) – id, property of the request body.

- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_network_access_condition_by_id`

```
delete_network_access_condition_by_id(id, headers=None, **query_parameters)
```

Network Access Delete a library condition.

**Parameters**

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_condition\_by\_id*

**network\_access\_dictionary****class NetworkAccessDictionary**

Identity Services Engine Network Access - Dictionary API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Dictionary API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionaries** (*headers=None*, *\*\*query\_parameters*)  
Get all Dictionaries.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries*

**create\_network\_access\_dictionaries** (*description=None, dictionary\_attr\_type=None, id=None, link=None, name=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Create a new Dictionary.

Parameters

- **description** (*string*) – The description of the Dictionary, property of the request body.
- **dictionary\_attr\_type** (*string*) – The dictionary attribute type, property of the request body. Available values are ‘ENTITY\_ATTR’, ‘MSG\_ATTR’ and ‘PIP\_ATTR’.
- **id** (*string*) – Identifier for the dictionary, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – The dictionary name, property of the request body.
- **version** (*string*) – The dictionary version, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, dictionary\_attr\_type=None, id=None, link=None, name=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_access\_dictionaries*

**get\_network\_access\_dictionary\_by\_name** (*name, headers=None, \*\*query\_parameters*)  
GET a dictionary by name.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name, headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_dictionary\_by\_name*

**update\_network\_access\_dictionary\_by\_name** (*name, description=None, dictionary\_attr\_type=None, id=None, link=None, version=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Update a Dictionary.

#### Parameters

- **description** (*string*) – The description of the Dictionary, property of the request body.
- **dictionary\_attr\_type** (*string*) – The dictionary attribute type, property of the request body. Available values are 'ENTITY\_ATTR', 'MSG\_ATTR' and 'PIP\_ATTR'.
- **id** (*string*) – Identifier for the dictionary, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*basestring*) – The dictionary name, property of the request body.
- **version** (*string*) – The dictionary version, property of the request body.
- **name** – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *description=None*, *dictionary\_attr\_type=None*, *id=None*, *link=None*, *version=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_dictionary\_by\_name*

**delete\_network\_access\_dictionary\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete a Dictionary.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary name.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.



- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_access\_dictionary\_by\_name*

## network\_access\_dictionary\_attribute

### class NetworkAccessDictionaryAttribute

Identity Services Engine Network Access - Dictionary Attribute API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Dictionary Attribute API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionary\_attributes\_by\_dictionary\_name** (*dictionary\_name*, *headers=None*, *\*\*query\_parameters*)

Returns a list of Dictionary Attributes for an existing Dictionary.

#### Parameters

- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*dictionary\_name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_dictionary\_attributes\_by\_dictionary\_name*

**create\_network\_access\_dictionary\_attribute** (*dictionary\_name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Create a new Dictionary Attribute for an existing Dictionary.

### Parameters

- **allowed\_values** (*list*) – all of the allowed values for the dictionary attribute, property of the request body (list of objects).
- **data\_type** (*string*) – the data type for the dictionary attribute, property of the request body. Available values are 'BOOLEAN', 'DATE', 'FLOAT', 'INT', 'IP', 'IPV4', 'IPV6', 'IPV6INTERFACE', 'IPV6PREFIX', 'LONG', 'OCTET\_STRING', 'STRING', 'UINT64' and 'UNIT32'.
- **description** (*string*) – The description of the Dictionary attribute, property of the request body.
- **dictionary\_name** (*basestring*) – the name of the dictionary which the dictionary attribute belongs to, property of the request body.
- **direction\_type** (*string*) – the direction for the useage of the dictionary attribute, property of the request body. Available values are 'BOTH', 'IN', 'NONE' and 'OUT'.
- **id** (*string*) – Identifier for the dictionary attribute, property of the request body.
- **internal\_name** (*string*) – the internal name of the dictionary attribute, property of the request body.
- **name** (*string*) – The dictionary attribute's name, property of the request body.
- **dictionary\_name** – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*dictionary\_name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *create\_network\_access\_dictionary\_attribute*

**get\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*, *name*, *headers=None*, *\*\*query\_parameters*)

Get a Dictionary Attribute.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary attribute name.
- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*dictionary\_name*, *name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_dictionary\_attribute\_by\_name*

**update\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*, *name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Update a Dictionary Attribute.

#### Parameters

- **allowed\_values** (*list*) – all of the allowed values for the dictionary attribute, property of the request body (list of objects).
- **data\_type** (*string*) – the data type for the dictionary attribute, property of the request body. Available values are 'BOOLEAN', 'DATE', 'FLOAT', 'INT', 'IP', 'IPV4', 'IPV6', 'IPV6INTERFACE', 'IPV6PREFIX', 'LONG', 'OCTET\_STRING', 'STRING', 'UINT64' and 'UNIT32'.
- **description** (*string*) – The description of the Dictionary attribute, property of the request body.

- **dictionary\_name** (*basestring*) – the name of the dictionary which the dictionary attribute belongs to, property of the request body.
- **direction\_type** (*string*) – the direction for the usage of the dictionary attribute, property of the request body. Available values are 'BOTH', 'IN', 'NONE' and 'OUT'.
- **id** (*string*) – Identifier for the dictionary attribute, property of the request body.
- **internal\_name** (*string*) – the internal name of the dictionary attribute, property of the request body.
- **name** (*basestring*) – The dictionary attribute's name, property of the request body.
- **name** – name path parameter. the dictionary attribute name.
- **dictionary\_name** – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*dictionary\_name*, *name*, *allowed\_values=None*, *data\_type=None*, *description=None*, *direction\_type=None*, *id=None*, *internal\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_dictionary\_attribute\_by\_name*

**delete\_network\_access\_dictionary\_attribute\_by\_name** (*dictionary\_name*,  
*name*, *headers=None*,  
*\*\*query\_parameters*)

Delete a Dictionary Attribute.

#### Parameters

- **name** (*basestring*) – name path parameter. the dictionary attribute name.
- **dictionary\_name** (*basestring*) – dictionaryName path parameter. the name of the dictionary the dictionary attribute belongs to.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*dictionary\_name, name, headers=None, \*\*query\_parameters*)  
Alias for *delete\_network\_access\_dictionary\_attribute\_by\_name*

### network\_access\_dictionary\_attributes\_list

#### **class NetworkAccessDictionaryAttributesList**

Identity Services Engine Network Access - Dictionary Attributes List API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Dictionary Attributes List API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_dictionaries\_authentication** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authentication.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_authentication** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries\_authentication*

**get\_network\_access\_dictionaries\_authorization** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for authorization.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_authorization** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_dictionaries\_authorization*

**get\_network\_access\_dictionaries\_policy\_set** (*headers=None, \*\*query\_parameters*)

Network Access Returns list of dictionary attributes for policysset.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_policy\_set** (*headers=None, \*\*query\_parameters*)  
 Alias for *get\_network\_access\_dictionaries\_policy\_set*

**network\_access\_identity\_stores****class NetworkAccessIdentityStores**

Identity Services Engine Network Access - Identity Stores API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Identity Stores API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_identity\_stores** (*headers=None, \*\*query\_parameters*)  
 Network Access Return list of identity stores for authentication policy definition. (Other CRUD APIs available through ERS).

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)  
 Alias for *get\_network\_access\_identity\_stores*

## network\_access\_network\_conditions

### class NetworkAccessNetworkConditions

Identity Services Engine Network Access - Network Conditions API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Network Conditions API and exposes the API as native Python methods that return native Python objects.

Policy APIs for manage Policy Sets, authorization policies, authentication policies, and policy elements.

**get\_network\_access\_network\_conditions** (*headers=None, \*\*query\_parameters*)

Network Access Returns a list of network conditions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_network\_conditions*

**create\_network\_access\_network\_condition** (*cli\_dnis\_list=None, condition\_type=None, description=None, device\_group\_list=None, device\_list=None, id=None, ip\_addr\_list=None, link=None, mac\_addr\_list=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates network condition.

#### Parameters

- **cli\_dnis\_list** (*list*) – This field should contain a Caller ID (CLI), comma, and Called ID (DNIS). Line format Caller ID (CLI), Called ID (DNIS), property of the request body (list of strings).
- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are 'DeviceCondition', 'DevicePortCondition' and 'EndstationCondition'.



- **description** (*string*) – description, property of the request body.
- **device\_group\_list** (*list*) – This field should contain a tuple with NDG Root, comma, and an NDG (that it under the root). Line format NDG Root Name, NDG, Port, property of the request body (list of strings).
- **device\_list** (*list*) – This field should contain Device Name. The device name must be the same as the name field in a Network Device object. Line format Device Name, property of the request body (list of strings).
- **id** (*string*) – id, property of the request body.
- **ip\_addr\_list** (*list*) – This field should contain IP address or subnet. IP address can be IPV4 format (n.n.n.n) or IPV6 format (n:n:n:n:n:n:n). IP subnet can be IPV4 format (n.n.n.n/m) or IPV6 format (n:n:n:n:n:n:n/m). Line format IP Address or subnet, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **mac\_addr\_list** (*list*) – This field should contain Endstation MAC address, comma, and Destination MAC addresses. Each Max address must include twelve hexadecimal digits using formats nn:nn:nn:nn:nn:nn or nn-nn-nn-nn-nn-nn or nnnn.nnnn.nnnn or nnnnnnnnnnnn. Line format Endstation MAC, Destination MAC, property of the request body (list of strings).
- **name** (*string*) – Network Condition name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request.
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

## Return type *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*cli\_dnis\_list=None, condition\_type=None, description=None, device\_group\_list=None, device\_list=None, id=None, ip\_addr\_list=None, link=None, mac\_addr\_list=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_network\_access\_network\_condition*

```
get_network_access_network_condition_by_id(id, headers=None,
                                           **query_parameters)
```

Network Access Returns a network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
get_by_id(id, headers=None, **query_parameters)
```

Alias for `get_network_access_network_condition_by_id`

```
update_network_access_network_condition_by_id(id, cli_dnis_list=None, condition_type=None, description=None,
                                              device_group_list=None, device_list=None, ip_addr_list=None,
                                              link=None, mac_addr_list=None, name=None, headers=None,
                                              payload=None, active_validation=True,
                                              **query_parameters)
```

Network Access Update network condition.

#### Parameters

- **cli\_dnis\_list** (*list*) – This field should contain a Caller ID (CLI), comma, and Called ID (DNIS). Line format Caller ID (CLI), Called ID (DNIS), property of the request body (list of strings).
- **condition\_type** (*string*) – This field determines the content of the conditions field, property of the request body. Available values are 'DeviceCondition', 'DevicePortCondition' and 'EndstationCondition'.
- **description** (*string*) – description, property of the request body.
- **device\_group\_list** (*list*) – This field should contain a tuple with NDG Root, comma, and an NDG (that it under the root). Line format NDG Root Name, NDG, Port, property of the request body (list of strings).

- **device\_list** (*list*) – This field should contain Device Name. The device name must be the same as the name field in a Network Device object. Line format Device Name, property of the request body (list of strings).
- **id** (*basestring*) – id, property of the request body.
- **ip\_addr\_list** (*list*) – This field should contain IP address or subnet. IP address can be IPV4 format (n.n.n.n) or IPV6 format (n:n:n:n:n:n:n). IP subnet can be IPV4 format (n.n.n.n/m) or IPV6 format (n:n:n:n:n:n:n/m). Line format IP Address or subnet, property of the request body (list of strings).
- **link** (*object*) – link, property of the request body.
- **mac\_addr\_list** (*list*) – This field should contain Endstation MAC address, comma, and Destination MAC addresses. Each Max address must include twelve hexadecimal digits using formats nn:nn:nn:nn:nn:nn or nn-nn-nn-nn-nn-nn or nnnn.nnnn.nnnn or nnnnnnnnnnnn. Line format Endstation MAC, Destination MAC , property of the request body (list of strings).
- **name** (*string*) – Network Condition name, property of the request body.
- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, cli_dnis_list=None, condition_type=None, description=None, device_group_list=None, device_list=None, ip_addr_list=None, link=None, mac_addr_list=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_network_access_network_condition_by_id`

```
delete_network_access_network_condition_by_id(id, headers=None, **query_parameters)
```

Network Access Delete network condition.

### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_network\_access\_network\_condition\_by\_id*

**network\_access\_policy\_set****class NetworkAccessPolicySet**

Identity Services Engine Network Access - Policy Set API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Policy Set API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_policy\_sets** (*headers=None*, *\*\*query\_parameters*)  
Get all network access policy sets.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_policy\_sets*

**create\_network\_access\_policy\_set** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Create a new policy set: Policy must include name , service identifier (either server sequence or allowed protocol) and a condition. Condition has hierarchical structure which define a set of condition for which policy could be match. Condition can be either reference to a stored Library condition, using model ConditionReference , or, dynamically built conditions which are not stored in the conditions Library, using models ConditionAttributes, ConditionAndBlock, ConditionOrBlock . .

**Parameters**

- **condition** (*object*) – condition, property of the request body.
- **default** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **description** (*string*) – The description for the policy set, property of the request body.
- **hit\_counts** (*integer*) – The amount of times the policy was matched, property of the request body.
- **id** (*string*) – Identifier for the policy set, property of the request body.
- **is\_proxy** (*boolean*) – Flag which indicates if the policy set service is of type ‘Proxy Sequence’ or ‘Allowed Protocols’, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Given name for the policy set, [Valid characters are alphanumerics, underscore, hyphen, space, period, parentheses], property of the request body.
- **rank** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.
- **service\_name** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **state** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are ‘disabled’, ‘enabled’ and ‘monitor’.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*condition=None, default=None, description=None, hit\_counts=None, id=None, is\_proxy=None, link=None, name=None, rank=None, service\_name=None, state=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_access\_policy\_set*

**reset\_hit\_counts\_network\_access\_policy\_sets** (*headers=None, \*\*query\_parameters*)  
Network Access Reset HitCount for PolicySets.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**reset\_hit\_counts** (*headers=None, \*\*query\_parameters*)  
Alias for *reset\_hit\_counts\_network\_access\_policy\_sets*

**get\_network\_access\_policy\_set\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Network Access Get policy set attributes.

**Parameters**

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_access\_policy\_set\_by\_id*

**update\_network\_access\_policy\_set\_by\_id** (*id*, *condition=None*, *default=None*, *description=None*, *hit\_counts=None*, *is\_proxy=None*, *link=None*, *name=None*, *rank=None*, *service\_name=None*, *state=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Network Access Update a policy set.

### Parameters

- **condition** (*object*) – condition, property of the request body.
- **default** (*boolean*) – Flag which indicates if this policy set is the default one, property of the request body.
- **description** (*string*) – The description for the policy set, property of the request body.
- **hit\_counts** (*integer*) – The amount of times the policy was matched, property of the request body.
- **id** (*basestring*) – Identifier for the policy set, property of the request body.
- **is\_proxy** (*boolean*) – Flag which indicates if the policy set service is of type 'Proxy Sequence' or 'Allowed Protocols', property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Given name for the policy set, [Valid characters are alphanumerics, underscore, hyphen, space, period, parentheses], property of the request body.
- **rank** (*integer*) – The rank(priority) in relation to other policy set. Lower rank is higher priority., property of the request body.

- **service\_name** (*string*) – Policy set service identifier Allowed Protocols,Server Sequence..., property of the request body.
- **state** (*string*) – The state that the policy set is in. A disabled policy set cannot be matched., property of the request body. Available values are ‘disabled’, ‘enabled’ and ‘monitor’.
- **id** – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, condition=None, default=None, description=None, hit_counts=None,
             is_proxy=None, link=None, name=None, rank=None, service_name=None,
             state=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_network\_access\_policy\_set\_by\_id*

```
delete_network_access_policy_set_by_id(id, headers=None, **query_parameters)
```

Network Access Delete a policy set.

#### Parameters

- **id** (*basestring*) – id path parameter. Policy id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.



- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_policy_set_by_id`*

## network\_access\_profiles

**class NetworkAccessProfiles**

Identity Services Engine Network Access - Profiles API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Profiles API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_profiles`** (*headers=None*, *\*\*query\_parameters*)

Network Access Returns list of authorization profiles. (Other CRUD APIs available through ERS).

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of `MyDict` objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_access_profiles`*

## network\_access\_security\_groups

### class NetworkAccessSecurityGroups

Identity Services Engine Network Access - Security Groups API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Security Groups API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_security\_groups** (*headers=None, \*\*query\_parameters*)

Network Access Return list of available security groups for authorization policy definition. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(list)**: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_security\_groups*

## network\_access\_service\_names

### class NetworkAccessServiceNames

Identity Services Engine Network Access - Service Names API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Service Names API and exposes the API as native Python methods that return native Python objects.

**get\_network\_access\_service\_names** (*headers=None, \*\*query\_parameters*)

Returns list of Allowed Protocols and Server Sequences for Network Access Policy Set results. 'isLocalAuthorization' property is available only for Network Access Policy Set results of type Server Sequence. (Other CRUD APIs available through ERS).

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of MyDict objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_access\_service\_names*

**network\_access\_time\_date\_conditions****class NetworkAccessTimeDateConditions**

Identity Services Engine Network Access - Time/Date Conditions API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Network Access - Time/Date Conditions API and exposes the API as native Python methods that return native Python objects.

**`get_network_access_time_conditions`** (*headers=None, \*\*query\_parameters*)  
Network Access Returns a list of time and date conditions.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_network\_access\_time\_conditions*

**create\_network\_access\_time\_condition** (*attribute\_name=None, attribute\_value=None, children=None, condition\_type=None, dates\_range=None, dates\_range\_exception=None, description=None, dictionary\_name=None, dictionary\_value=None, hours\_range=None, hours\_range\_exception=None, id=None, is\_negate=None, link=None, name=None, operator=None, week\_days=None, week\_days\_exception=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Network Access Creates time/date condition.

### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.
- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggregation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryConditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.

- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*string*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are 'contains', 'endsWith', 'equals', 'greaterOrEquals', 'greaterThan', 'in', 'ipEquals', 'ipGreaterThan', 'ipLessThan', 'ipNotEquals', 'lessOrEquals', 'lessThan', 'matches', 'notContains', 'notEndsWith', 'notEquals', 'notIn', 'notStartsWith' and 'startsWith'.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

## Return type *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
create (attribute_name=None, attribute_value=None, children=None, condition_type=None, dates_range=None, dates_range_exception=None, description=None, dictionary_name=None, dictionary_value=None, hours_range=None, hours_range_exception=None, id=None, is_negate=None, link=None, name=None, operator=None, week_days=None, week_days_exception=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *create\_network\_access\_time\_condition*

**get\_network\_access\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Network Access returns a network condition.

#### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_network\_access\_time\_condition\_by\_id*

**update\_network\_access\_time\_condition\_by\_id** (*id*, *attribute\_name=None*,  
*attribute\_value=None*,  
*children=None*, *condition\_type=None*, *dates\_range=None*,  
*dates\_range\_exception=None*,  
*description=None*, *dictionary\_name=None*, *dictionary\_value=None*,  
*hours\_range=None*, *hours\_range\_exception=None*,  
*is\_negate=None*, *link=None*,  
*name=None*, *operator=None*, *week\_days=None*,  
*week\_days\_exception=None*,  
*headers=None*, *payload=None*,  
*active\_validation=True*,  
*\*\*query\_parameters*)

Network Access Update network condition.

#### Parameters

- **attribute\_name** (*string*) – Dictionary attribute name, property of the request body.
- **attribute\_value** (*string*) – Attribute value for condition Value type is specified in dictionary object if multiple values allowed is specified in dictionary object, property of the request body.

- **children** (*list*) – In case type is andBlock or orBlock additional conditions will be aggregated under this logical (OR/AND) condition, property of the request body (list of objects).
- **condition\_type** (*string*) – Indicates whether the record is the condition itself(data) or a logical(or,and) aggregation Data type enum(reference,single) indicates than “conditonId” OR “ConditionAttrs” fields should contain condition data but not both Logical aggreation(and,or) enum indicates that additional conditions are present under the children field, property of the request body. Available values are ‘ConditionAnd-Block’, ‘ConditionAttributes’, ‘ConditionOrBlock’, ‘ConditionReference’, ‘LibraryCon-ditionAndBlock’, ‘LibraryConditionAttributes’, ‘LibraryConditionOrBlock’ and ‘Time-AndDateCondition’.
- **dates\_range** (*object*) – Defines for which date/s TimeAndDate condition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no specific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **dates\_range\_exception** (*object*) – Defines for which date/s TimeAndDate con-dition will be matched Options are Date range, for specific date, the same date should be used for start/end date Default no specific dates In order to reset the dates to have no spec-ific dates Date format yyyy- mm-dd (MM = month, dd = day, yyyy = year), property of the request body.
- **description** (*string*) – Condition description, property of the request body.
- **dictionary\_name** (*string*) – Dictionary name, property of the request body.
- **dictionary\_value** (*string*) – Dictionary value, property of the request body.
- **hours\_range** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **hours\_range\_exception** (*object*) – Defines for which hours a TimeAndDate condition will be matched Time format hh:mm ( h = hour , mm = minutes ) Default All Day , property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_negate** (*boolean*) – Indicates whereas this condition is in negate mode, property of the request body.
- **link** (*object*) – link, property of the request body.
- **name** (*string*) – Condition name, property of the request body.
- **operator** (*string*) – Equality operator, property of the request body. Available values are ‘contains’, ‘endsWith’, ‘equals’, ‘greaterOrEquals’, ‘greaterThan’, ‘in’, ‘ipEquals’, ‘ipGreaterThan’, ‘ipLessThan’, ‘ipNotEquals’, ‘lessOrEquals’, ‘lessThan’, ‘matches’, ‘notContains’, ‘notEndsWith’, ‘notEquals’, ‘notIn’, ‘notStartsWith’ and ‘startsWith’.
- **week\_days** (*list*) – Defines for which days this condition will be matched Days format Arrays of WeekDay enums Default List of All week days, property of the request body (list of strings. Available values are ‘Friday’, ‘Monday’, ‘Saturday’, ‘Sunday’, ‘Thursday’, ‘Tuesday’ and ‘Wednesday’).
- **week\_days\_exception** (*list*) – Defines for which days this condition will NOT be matched Days format Arrays of WeekDay enums Default Not enabled, property of

the request body (list of strings. Available values are 'Friday', 'Monday', 'Saturday', 'Sunday', 'Thursday', 'Tuesday' and 'Wednesday').

- **id** – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *attribute\_name=None*, *attribute\_value=None*, *children=None*, *condition\_type=None*, *dates\_range=None*, *dates\_range\_exception=None*, *description=None*, *dictionary\_name=None*, *dictionary\_value=None*, *hours\_range=None*, *hours\_range\_exception=None*, *is\_negate=None*, *link=None*, *name=None*, *operator=None*, *week\_days=None*, *week\_days\_exception=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_access\_time\_condition\_by\_id*

**delete\_network\_access\_time\_condition\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Network Access Delete Time/Date condition.

### Parameters

- **id** (*basestring*) – id path parameter. Condition id.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response



- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_network_access_time_condition_by_id`*

## **network\_device**

### **class NetworkDevice**

Identity Services Engine NetworkDevice API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine NetworkDevice API and exposes the API as native Python methods that return native Python objects.

Network Device API allows the client to add, delete, update, and search network devices. Please note that each API description shows whether the API is supported in bulk operation. The bulk section is showing only 'create' bulk operation however, all other operation which are bulk supported can be used in same way.

### **Revision History**

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Ver-<br>sion | Cisco<br>ISE<br>Ver-<br>sion | Description   | Revision Modifi-<br>cation                           | Revision Modification   |
|-------------------------|-------------------------------|------------------------------|---|--|---|
|                         |                               |                              |   | Attribute  | Description   |
| 0                       | 1.0                           | 1.2                          | Initial Cisco ISE Version   |  |   |
| 1                       | 1.1                           | 2.0                          | Cisco ISE 2.0 model changes for TACACS+ and 3rd-Party support                 | tacacsSet-<br>tings:sharedSecret                     | Added Attribute 'shared-Secret' for Tacacs+ sup-<br>port                      |
|                         |                               |                              |   | tacacsSet-<br>tings:connectModeOptions               | Added Attribute 'con-<br>nectModeOptions' for<br>Tacacs+ support              |
|                         |                               |                              |   | profileName  | Added Attribute 'profile-<br>Name' for 3rd-Party sup-<br>port support         |
|                         |                               |                              |   | coaPort  | Added Attribute 'coaPort'<br>for 3rd-Party support sup-<br>port               |
| 2                       | 1.2                           | 2.4                          | Cisco ISE 2.4 model changes for Multi shared secret and DTLS Required support | authenticationset-<br>tings:enableMultiSecret        | Added Attribute 'enable-<br>MultiSecret' for multiple<br>shared secret        |
|                         |                               |                              |   | authenticationset-<br>tings:secondRadiusSharedSecret | Added Attribute 'secon-<br>dRadiusSharedSecret' for<br>multiple shared secret |
|                         |                               |                              |   | authenticationset-<br>tings:dtlsRequired             | Added Attribute 'dtlsRe-<br>quired' for dtls settings                         |

### Resource Definition

| Attribute              | Type    | Required | Description                                 | Default Values | Example Val-<br>ues                              |
|------------------------|---------|----------|---|----------------|--|
| name                   | String  | Yes      | Resource<br>Name                            |                | ISE_EST_Local_Host                               |
| id                     | String  | No       | Resource<br>UUID, manda-<br>tory for update |                | 79aac430-<br>7cc8-<br>11eb-ad58-<br>005056926583 |
| description            | String  | No       |   |                | example nd                                       |
| authenticationSettings | Boolean | Yes      |   |                | false  |
| • enableKeyWrap        | Boolean | Yes      |   | false          |  |
| • enabled              | Boolean | Yes      |   | false          |  |

Continued on next page

Table 37 – continued from previous page

|                               |         |     |  |        |                      |
|-------------------------------|---------|-----|--|--------|----------------------|
| • keyEncryptionKey            | String  | Yes |  |        | 1234567890123456     |
| • keyInputFormat              | Enum    | Yes | Allowed values: ASCII, HEXADECI-MAL  | ASCII  |                      |
| • messageAuthenticatorCodeKey | String  | No  |  |        | 12345678901234567890 |
| • networkProtocol             | Enum    | No  | Allowed values: RADIUS, TACACS_PLUS  | RADIUS |                      |
| • radiusSharedSecret          | String  | No  |  |        | VHEGKOCUHYB          |
| • enableMultiSecret           | Boolean | No  |  |        | false                |
| • secondRadiusSharedSecret    | String  | No  |  |        |                      |
| • dtlsRequired                | Boolean | No  | This value enforces use of dtls  | false  |                      |
| coaPort                       | Integer | Yes | Since 2.0 (for 3rd party)  |        | 0                    |
| dtlsDnsName                   | String  | No  | This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate |        | ISE213.il.com        |
| NetworkDeviceIPList           | String  | Yes | List of IP Subnets for this node   |        |                      |
| • ipaddress                   | String  | Yes | It can be either single IP address or IP range address   |        | 127.0.0.1            |

Continued on next page

Table 37 – continued from previous page

|                                 |         |     |   |      |  |
|---------------------------------|---------|-----|---|------|--|
| •<br>getIpAddressExclude        | String  | Yes | It can be either single IP address or IP range address      |      |  |
| • mask                          | Integer | Yes |   |      | 32   |
| NetworkDeviceGroupList          | List    | No  | List of Network Device Group names for this node            |      | [ “Location#All Locations”, “Device Type#All Device Types” ] |
| modelName                       | String  | No  |   |      |  |
| softwareVersion                 | String  | No  |   |      |  |
| profileName                     | String  | Yes | Since 2.0 (for 3rd party)                                   | true | Cisco  |
| snmpsettings                    | List    | Yes |   |      |  |
| • linkTrapQuery                 | Boolean | Yes | SNMP link Trap Query  | true |  |
| • macTrapQuery                  | Boolean | Yes | SNMP MAC Trap Query   | true |  |
| • originatingPolicyServicesNode | String  | Yes | Originating Policy Services Node                            | Auto |  |
| • pollingInterval               | Integer | Yes | SNMP Polling Interval in seconds (Valid Range 600 to 86400) | 3600 |  |
| • roCommunity                   | String  | No  | SNMP RO Community   |      | aaa  |
| • version                       | Enum    | No  | Allowed values: ONE, TWO_C, THREE                           |      | ONE  |
| tacacsSettings                  | List    | Yes | Since 2.0 (for Tacacs+)                                     |      |  |
| • connectModeOptions            | Enum    | No  | Allowed values: OFF, ON_LEGACY, ON_DRAFT_COMPLIANT          |      | ON_LEGACY  |

Continued on next page

Table 37 – continued from previous page

|   |         |     |           |       |                 |
|---|---------|-----|-----------|-------|-----------------|
| •<br>sharedSecret                                 | String  | Yes | Since 2.0 |       | aaa             |
| trustsecsettings                                  | List    | Yes |           |       |                 |
| •<br>deviceAuthenticationSettings                 | List    | Yes |           |       |                 |
| •<br>sgaDeviceId                                  | String  | No  |           |       | networkDeviceId |
| •<br>sgaDevicePassword                            | String  | No  |           |       | aaa             |
| •<br>deviceConfigurationDeployment                | List    | Yes |           |       |                 |
| •<br>enableModePassword                           | String  | No  |           |       | aaa             |
| •<br>execModePassword                             | String  | No  |           |       | aaa             |
| •<br>execModeUsername                             | String  | No  |           |       | aaa             |
| •<br>includeWhenDeployingSGTUpdates               | Boolean | No  |           | false |                 |
| •<br>sgaNotificationAndUpdates                    | List    | Yes |           |       |                 |
| •<br>downloadEnvironmentDataEveryXSeconds         | Integer | No  |           | 86400 |                 |
| •<br>downloadPeerAuthorizationPolicyEveryXSeconds | Integer | No  |           | 86400 |                 |

Continued on next page

Table 37 – continued from previous page

|                                    |         |    |  |                  |  |
|------------------------------------|---------|----|--|------------------|--|
| • downloadSGACLListsEveryXSeconds  | Integer | No |  | 86400            |  |
| • otherSGADevicesToTrustThisDevice | Boolean | No |  | false            |  |
| • reAuthenticationEveryXSeconds    | Integer | No |  | 86400            |  |
| • sendConfigurationToDevice        | Boolean | No |  | false            |  |
| • sendConfigurationToDeviceUsing   | Enum    | No | Allowed values: EN-ABLE_USING_COA, EN-ABLE_USING_CLI, DIS-ABLE_ALL | ENABLE_USING_COA |  |

**get\_network\_device\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_device\_by\_name*

```

update_network_device_by_name(name, authentication_settings=None, coa_port=None,
                                description=None, dtls_dns_name=None, id=None,
                                model_name=None, network_device_group_list=None,
                                network_device_iplist=None, profile_name=None,
                                snmpsettings=None, software_version=None,
                                tacacs_settings=None, trustsecsettings=None, headers=None,
                                payload=None, active_validation=True,
                                **query_parameters)

```

This API allows the client to update a network device by name.

#### Parameters

- **network\_device\_group\_list** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **network\_device\_iplist** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **authentication\_settings** (*object*) – authenticationSettings, property of the request body.
- **coa\_port** (*integer*) – coaPort, property of the request body.
- **description** (*string*) – description, property of the request body.
- **dtls\_dns\_name** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **id** (*string*) – id, property of the request body.
- **model\_name** (*string*) – modelName, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **snmpsettings** (*object*) – snmpsettings, property of the request body.
- **software\_version** (*string*) – softwareVersion, property of the request body.
- **tacacs\_settings** (*object*) – tacacsSettings, property of the request body.
- **trustsecsettings** (*object*) – trustsecsettings, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *authentication\_settings=None*, *coa\_port=None*, *description=None*, *dtls\_dns\_name=None*, *id=None*, *model\_name=None*, *network\_device\_group\_list=None*, *network\_device\_ip\_list=None*, *profile\_name=None*, *snmpsettings=None*, *software\_version=None*, *tacacs\_settings=None*, *trustsecsettings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_network\_device\_by\_name*

**delete\_network\_device\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a network device by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_by\_name*

**get\_network\_device\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_network\_device\_by\_id*

**`update_network_device_by_id`** (*id*, *authentication\_settings=None*, *coa\_port=None*, *description=None*, *dtls\_dns\_name=None*, *model\_name=None*, *name=None*, *network\_device\_group\_list=None*, *network\_device\_ip\_list=None*, *profile\_name=None*, *snmpsettings=None*, *software\_version=None*, *tacacs\_settings=None*, *trustsecsettings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a network device by ID.

**Parameters**

- **`network_device_group_list`** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **`network_device_ip_list`** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **`authentication_settings`** (*object*) – authenticationSettings, property of the request body.
- **`coa_port`** (*integer*) – coaPort, property of the request body.
- **`description`** (*string*) – description, property of the request body.
- **`dtls_dns_name`** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.
- **`model_name`** (*string*) – modelName, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`profile_name`** (*string*) – profileName, property of the request body.
- **`snmpsettings`** (*object*) – snmpsettings, property of the request body.
- **`software_version`** (*string*) – softwareVersion, property of the request body.
- **`tacacs_settings`** (*object*) – tacacsSettings, property of the request body.
- **`trustsecsettings`** (*object*) – trustsecsettings, property of the request body.

- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, authentication_settings=None, coa_port=None, description=None,
             dtls_dns_name=None, model_name=None, name=None, network_device_group_list=None,
             network_device_ip_list=None, profile_name=None, snmpsettings=None,
             software_version=None, tacacs_settings=None, trustsecsettings=None,
             headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_network\_device\_by\_id*

```
delete_network_device_by_id(id, headers=None, **query_parameters)
```

This API deletes a network device by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_by\_id*

**get\_network\_device** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the network devices. Filter: [ipaddress, name, description, location, type] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for **get\_network\_device**

**get\_network\_device\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the network devices. Filter: [ipaddress, name, description, location, type] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_network\_device\_generator*

**create\_network\_device** (*authentication\_settings=None, coa\_port=None, description=None, dtls\_dns\_name=None, model\_name=None, name=None, network\_device\_group\_list=None, network\_device\_ip\_list=None, profile\_name=None, snmpsettings=None, software\_version=None, tacacs\_settings=None, trustsecsettings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a network device.

#### Parameters

- **network\_device\_group\_list** (*list*) – List of Network Device Group names for this node, property of the request body (list of strings).
- **network\_device\_ip\_list** (*list*) – List of IP Subnets for this node, property of the request body (list of objects).
- **authentication\_settings** (*object*) – authenticationSettings, property of the request body.
- **coa\_port** (*integer*) – coaPort, property of the request body.
- **description** (*string*) – description, property of the request body.
- **dtls\_dns\_name** (*string*) – This value is used to verify the client identity contained in the X.509 RADIUS/DTLS client certificate, property of the request body.
- **model\_name** (*string*) – modelName, property of the request body.
- **name** (*string*) – name, property of the request body.
- **profile\_name** (*string*) – profileName, property of the request body.
- **snmpsettings** (*object*) – snmpsettings, property of the request body.
- **software\_version** (*string*) – softwareVersion, property of the request body.
- **tacacs\_settings** (*object*) – tacacsSettings, property of the request body.
- **trustsecsettings** (*object*) – trustsecsettings, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*authentication\_settings=None, coa\_port=None, description=None, dtls\_dns\_name=None, model\_name=None, name=None, network\_device\_group\_list=None, network\_device\_ip\_list=None, profile\_name=None, snmpsettings=None, software\_version=None, tacacs\_settings=None, trustsecsettings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_device*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the network device.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_network\_device** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_network\_device*

**monitor\_bulk\_status\_network\_device** (*bulkid, headers=None, \*\*query\_parameters*)  
This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid**(*basestring*) – bulkid path parameter.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)  
Alias for *monitor\_bulk\_status\_network\_device*

## network\_device\_group

### class NetworkDeviceGroup

Identity Services Engine NetworkDeviceGroup API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine NetworkDeviceGroup API and exposes the API as native Python methods that return native Python objects.

Network Device Group API allows the client to search network device groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 1.3               | Initial Cisco ISE Version |
| 1          | 1.1              | 2.4               | Added GetByName operation |

### Resource Definition

| At-tribute   | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       | Device Type#All Device Types         |
| id           | String | No        | Resource UUID, mandatory for update | 70c79c30-8bff-11e6-996c-525400b48521 |
| descrip-tion | String | No        |                                     | All Device Types                     |
| other-name   | String | No        |                                     | Device Type                          |

**get\_network\_device\_group\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device group by name.

#### Parameters

- **name** (*basestring*) – name path parameter. colon is used as a separator instead of (#) in the NDG name. For example, if the name is a#b#c it should appear in the request URL as a:b:c.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_device_group_by_name`*

**`get_network_device_group_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a network device group by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_network_device_group_by_id`*

**`update_network_device_group_by_id`** (*id*, *description=None*, *name=None*, *other-name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a network device group.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.

- **name** (*string*) – name, property of the request body.
- **othername** (*string*) – othername, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *othername=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_network\_device\_group\_by\_id*

**delete\_network\_device\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a network device group.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_network\_device\_group\_by\_id*

**get\_network\_device\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the network device groups. Filter: [name, description, type] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_network\_device\_group*

**get\_network\_device\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the network device groups. Filter: [name, description, type] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_network\_device\_group\_generator*

**create\_network\_device\_group** (*description=None, name=None, othername=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a network device group.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **othername** (*string*) – othername, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, othername=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_network\_device\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the network device group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**node\_deployment****class NodeDeployment**

Identity Services Engine Node Deployment API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Node Deployment API and exposes the API as native Python methods that return native Python objects.

**get\_nodes** (*filter=None, filter\_type=None, headers=None, \*\*query\_parameters*)

The API lists all the nodes that are deployed in the cluster. Returns basic information about each of the deployed nodes in the cluster like hostname, status, roles, and services. Supports filtering on FQDN, hostname, IP address, roles, services and node status. .

**Parameters**

- **filter** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering is available through the filter query string parameter. The structure of a filter is a triplet of field operator and value, separated by dots. More than one filter can be sent. The logical operator common to all filter criteria is AND by default, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to all filter criteria is AND by default, and can be changed by using this parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**register\_node** (*allow\_cert\_import=None, fqdn=None, password=None, roles=None, services=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API registers a Cisco ISE node to form a multi-node deployment. Approximate execution time 300 seconds. .

**Parameters**

- **`allow_cert_import`** (*boolean*) – Consent to import the self- signed certificate of the registering node. , property of the request body.
- **`fqdn`** (*string*) – fqdn, property of the request body.
- **`password`** (*string*) – password, property of the request body.
- **`roles`** (*list*) – Roles can be empty or have many values for a node. , property of the request body (list of strings. Available values are 'PrimaryAdmin', 'PrimaryDedicatedMonitoring', 'PrimaryMonitoring', 'SecondaryAdmin', 'SecondaryDedicatedMonitoring', 'SecondaryMonitoring' and 'Standalone').
- **`services`** (*list*) – Services can be empty or have many values for a node. , property of the request body (list of strings. Available values are 'DeviceAdmin', 'PassiveIdentity', 'Profiler', 'SXP', 'Session', 'TC-NAC', 'pxGrid' and 'pxGridCloud').
- **`user_name`** (*string*) – userName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_node\_details** (*hostname*, *headers=None*, *\*\*query\_parameters*)

This API retrieves detailed information of the deployed node. .

#### Parameters

- **hostname** (*basestring*) – hostname path parameter. Hostname of the deployed node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*hostname*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_details*

**update\_node** (*hostname*, *roles=None*, *services=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API updates the configuration of the Cisco ISE node with the configuration provided. Approximate execution time 300 seconds. .

#### Parameters

- **roles** (*list*) – Roles can be empty or have many values for a node. , property of the request body (list of strings. Available values are 'PrimaryAdmin', 'PrimaryDedicatedMonitoring', 'PrimaryMonitoring', 'SecondaryAdmin', 'SecondaryDedicatedMonitoring', 'SecondaryMonitoring' and 'Standalone').
- **services** (*list*) – Services can be empty or have many values for a node. , property of the request body (list of strings. Available values are 'DeviceAdmin', 'PassiveIdentity', 'Profiler', 'SXP', 'Session', 'TC-NAC', 'pxGrid' and 'pxGridCloud').
- **hostname** (*basestring*) – hostname path parameter. Hostname of the deployed node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_node`** (*hostname*, *headers=None*, *\*\*query\_parameters*)

The deregistered node becomes a standalone Cisco ISE node. It retains the last configuration that it received from the primary PAN and assumes the default roles and services of a standalone node. Approximate execution time 300 seconds. .

**Parameters**

- **`hostname`** (*basestring*) – hostname path parameter. The hostname of the node in the deployment to be deregistered.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`make_primary`** (*headers=None*, *\*\*query\_parameters*)

This API promotes the standalone node on which the API is invoked to the primary Policy Administration node (PAN). .

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**promote\_node** (*headers=None, \*\*query\_parameters*)

Execute this API in the secondary PAN in the cluster to promote the node to primary PAN. Ensure that the API Gateway setting is enabled in the secondary PAN. Approximate execution time 300 seconds. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**make\_standalone** (*headers=None, \*\*query\_parameters*)

This API changes the primary PAN in a single node cluster on which the API is invoked, to a standalone node. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**sync\_node** (*hostname*, *headers=None*, *\*\*query\_parameters*)

Performing a manual synchronization involves a reload of the target node, but not the primary PAN. Approximate execution time 300 seconds.

#### Parameters

- **hostname** (*basestring*) – hostname path parameter. Hostname of the node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## node\_group

### class NodeGroup

Identity Services Engine Node Group API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Node Group API and exposes the API as native Python methods that return native Python objects.

**get\_node\_groups** (*headers=None, \*\*query\_parameters*)

This API retrieves the details of all the node groups in the cluster. Each node group retrieved consists of name, description and MAR cache details like query-attempts, query-timeout, replication-attempts, replication- timeout. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create\_node\_group** (*description=None, mar\_cache=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a node group in the cluster. A node group is a group of PSNs, where the PSNs maintain a heartbeat with each other. It is used primarily to terminate or transfer posture-pending sessions when a PSN in a local node group fails. Node group members can communicate over TCP/7800. The following parameters are used in the request body of the API: **PARAMETER DESCRIPTION EXAMPLE** **name** \* required Name of the node group( valid-range: 1-100 characters) {"name": "site1"} **description** Description of the node group ( valid-range: 0-256 characters) {"name": "site2", "description": "sample"} **query-attempts** The number of times Cisco ISE attempts to perform the cache entry query. ( valid-range: 0 5, default-value: 1) {"name": "site3", "marCache": {"query-attempts": 1}} **query-timeout** The time, in seconds, after which a cache entry query times out. ( valid-range: 1 10, default-value: 2) second(s) {"name": "site4", "marCache": {"query-timeout": 2}} **replication-attempts** The number of times Cisco ISE attempts to perform MAR cache entry replication. ( valid-range: 0 5, default-value: 2) {"name": "site5", "marCache": {"replication-attempts": 2}} **replication-timeout** The time, in seconds, after which the cache entry replication times out. ( valid-range: 1 10, default-value: 5) second(s) {"name": "site6", "marCache": {"replication-timeout": 5}} **NOTE 1:** : Node group name and description cannot contain any of the following characters: ! % ^ : ; , . ~ @ # & [ { ( | ) } ] ` > < / " ' + = ? **NOTE 2:** : Parameter marCache stands for Machine Access Restriction (MAR) cache that provides an additional means of controlling authorization for Active Directory- authentication users. We can enable the marCache for a

nodegroup by providing key “marCache” in json request. Additionally we may also provide any combination of parameters query-attempts, query-timeout, replication-attempts, replication-timeout in marCache object. If no value is specified for a particular parameter its default value will be recorded. If no marCache object is given, marCache will be considered as disabled. .

#### Parameters

- **description** (*string*) – description, property of the request body.
- **mar\_cache** (*object*) – marCache, property of the request body.
- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_node\_group** (*node\_group\_name*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the details of a node group in the cluster using a node group name.

#### Parameters

- **node\_group\_name** (*basestring*) – nodeGroupName path parameter. Name of the existing node group.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- ***TypeError*** – If the parameter types are incorrect.
- ***MalformedRequest*** – If the request body created is invalid.
- ***ApiError*** – If the Identity Services Engine cloud returns an error.

**update\_node\_group** (*node\_group\_name*, *description=None*, *mar\_cache=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Purpose of this API is to update an existing node group. The following parameters are used in the request body of the API: **PARAMETER DESCRIPTION EXAMPLE** **name** \* required Name of the node group existing in ISE( valid-range: 1-100 characters) **NOTE** : name of an existing node group cannot be modified. **"name"** parameter should be identical to the node group name(`nodeGroupName`) provided in the path {**"name"**: "site1"} **description** Description of the node group ( valid-range: 0-256 characters) {**"name"**: "site2", **"description"**: "sample"} **query-attempts** The number of times Cisco ISE attempts to perform the cache entry query. ( valid-range: 0 5, default-value: 1) {**"name"**: "site3",**"marCache"**: {**"query-attempts"**: 1}} **query-timeout** The time, in seconds, after which a cache entry query times out. ( valid-range: 1 10, default-value: 2) second(s) {**"name"**: "site4",**"marCache"**: {**"query-timeout"**: 2}} **replication-attempts** The number of times Cisco ISE attempts to perform MAR cache entry replication. ( valid-range: 0 5, default-value: 2) {**"name"**: "site5",**"marCache"**: {**"replication-attempts"**: 2}} **replication-timeout** The time, in seconds, after which the cache entry replication times out. ( valid-range: 1 10, default-value: 5) second(s) {**"name"**: "site6",**"marCache"**: {**"replication-timeout"**: 5}} **NOTE 1**: Node group name and description cannot contain any of the following characters: ! % ^ : ; , . ~ @ # & [ { ( | ) } ] ` > < / " + = ? **NOTE 2**: Parameter `marCache` stands for Machine Access Restriction (MAR) cache that provides an additional means of controlling authorization for Active Directory-authentication users. We can enable the `marCache` for a nodegroup by providing key `"marCache"` in json request. Additionally we may also provide any combination of parameters `query-attempts`, `query-timeout`, `replication-attempts`, `replication-timeout` in `marCache` object. If no value is specified for a particular parameter its default value will be recorded. If no `marCache` object is given, `marCache` will be disabled. .

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`mar_cache`** (*object*) – `marCache`, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`node_group_name`** (*basestring*) – `nodeGroupName` path parameter. Name of the existing node group.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_node_group`** (*force\_delete, node\_group\_name, headers=None, \*\*query\_parameters*)

Delete an existing node group in the cluster. Deleting the node group does not delete the nodes, but failover is no longer carried out among the nodes.

**Parameters**

- **`node_group_name`** (*basestring*) – `nodeGroupName` path parameter. Name of the existing node group.
- **`force_delete`** (*bool*) – `forceDelete` query parameter. Force delete the group even if the node group contains one or more nodes.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`add_node`** (*node\_group\_name, hostname=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API adds a node to the node group in the cluster. When a node that belongs to a node group fails, another node in the same node group issues a Change of Authorization (CoA) for all the URL-redirceted sessions on the failed node. The following parameters are used in the request body of the API: PARAMETER DESCRIPTION EXAMPLE `hostname` \* required Name of the host name {`"hostname": "isnode"`}

**Parameters**

- **`hostname`** (*string*) – `hostname`, property of the request body.
- **`node_group_name`** (*basestring*) – `nodeGroupName` path parameter. Name of the existing node group.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_nodes** (*node\_group\_name*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the list of nodes associated with a node group in the cluster with a given node group name.

#### Parameters

- **node\_group\_name** (*basestring*) – nodeGroupName path parameter. Name of the existing node group.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**remove\_node** (*node\_group\_name*, *hostname=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Purpose of this API is to remove a node from a node group in the cluster. Removing node from the node group does not delete the node, but failover is no longer carried out if the node is not part any node group. The following parameters are used in the request body of the API: **PARAMETER DESCRIPTION**  
**EXAMPLE** hostname \* required Name of the host name {"hostname": "isencode"} .

#### Parameters

- **hostname** (*string*) – hostname, property of the request body.
- **node\_group\_name** (*basestring*) – nodeGroupName path parameter. Name of the existing node group.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## node\_services

### class NodeServices

Identity Services Engine Node Services API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Node Services API and exposes the API as native Python methods that return native Python objects.

**get\_interfaces** (*hostname*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the list of interfaces on a node in a cluster. .

#### Parameters

- **hostname** (*basestring*) – hostname path parameter. Hostname of the node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_sxp_interface`** (*hostname*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the SXP interface. .

**Parameters**

- **`hostname`** (*basestring*) – hostname path parameter. Hostname of the node.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`set_sxp_interface`** (*hostname*, *interface=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API configures the SXP interface. .

**Parameters**

- **`interface`** (*string*) – interface, property of the request body.
- **`hostname`** (*basestring*) – hostname path parameter. Hostname of the node.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload**(*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation**(*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_profiler\_probe\_config**(*hostname*, *headers=None*, *\*\*query\_parameters*)

This API retrieves the profiler probe configuration of a PSN. .

#### Parameters

- **hostname**(*basestring*) – hostname path parameter. Hostname of the node.
- **headers**(*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
set_profiler_probe_config (hostname, active_directory=None, dhcp=None, dhcp_span=None,
                             dns=None, http=None, netflow=None, nmap=None, px-
                             grid=None, radius=None, snmp_query=None, snmp_trap=None,
                             headers=None, payload=None, active_validation=True,
                             **query_parameters)
```

This API updates the profiler probe configuration of a PSN. Set probe value as null to disable probe. Ex: Below payload will disable NMAP, PxGrid and SNMPTRAP probes { "activeDirectory": { "daysBeforeRescan": 1 }, "dhcp": { "interfaces": "[{"interface": "GigabitEthernet 0"}]", "port": 0 }, "dhcpSpan": { "interfaces": "[{"interface": "GigabitEthernet 0"}]" }, "dns": { "timeout": 2 }, "http": { "interfaces": "[{"interface": "GigabitEthernet 0"}]" }, "netflow": { "interfaces": "[{"interface": "GigabitEthernet 0"}]", "port": 0 }, "nmap": null, "pxgrid": null, "radius": [], "snmpQuery": { "eventTimeout": 30, "retries": 2, "timeout": 1000 }, "snmpTrap": null } .

### Parameters

- **active\_directory** (*object*) – The Active Directory probe queries the Active Directory for Windows information., property of the request body.
- **dhcp** (*object*) – The DHCP probe listens for DHCP packets from IP helpers., property of the request body.
- **dhcp\_span** (*object*) – The DHCP SPAN probe collects DHCP packets., property of the request body.
- **dns** (*object*) – The DNS probe performs a DNS lookup for the FQDN., property of the request body.
- **http** (*object*) – The HTTP probe receives and parses HTTP packets., property of the request body.
- **netflow** (*object*) – The NetFlow probe collects the NetFlow packets that are sent to it from routers., property of the request body.
- **nmap** (*list*) – The NMAP probe scans endpoints for open ports and OS., property of the request body (list of objects).
- **pxgrid** (*list*) – The pxGrid probe fetches attributes of MAC address or IP address as a subscriber from the pxGrid queue., property of the request body (list of objects).
- **radius** (*list*) – The RADIUS probe collects RADIUS session attributes as well as CDP, LLDP, DHCP, HTTP, and MDM attributes from IOS Sensors., property of the request body (list of objects).
- **snmp\_query** (*object*) – The SNMP query probe collects details from network devices such as interface, CDP, LLDP, and ARP., property of the request body.
- **snmp\_trap** (*object*) – The SNMP trap probe receives linkup, linkdown, and MAC notification traps from network devices., property of the request body.
- **hostname** (*basestring*) – hostname path parameter. Hostname of the node.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## node\_details

### class NodeDetails

Identity Services Engine NodeDetails API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine NodeDetails API and exposes the API as native Python methods that return native Python objects.

Node Details API allows the client to get deployment node details, get all nodes and filter nodes based on `NodeServiceTypes`.

#### Revision History

| Re-vi-sion # | Re-source Ver-sion | Cisco ISE Version | Description                                       | Revision Modifi-cation | Revision Modification  |
|--------------|--------------------|-------------------|---|------------------------|--|
|              |                    |                   |   | Attribute              | Description  |
| 0            | 1.0                | 2.2               | Initial Cisco ISE Version                         |                        |  |
| 1            | 1.1                | 2.4               | Support Node Service Types as part of Node Object | NodeServiceTypes       | Added String Field <code>NodeServiceTypes</code> . String represents services configured on the Node |
| 2            | 1.2                | 2.7               | Support Node FQDN as part of Node Object          | fqdn                   | Added String Field <code>FQDN</code> . String represents FQDN of the Node                            |
| 3            | 1.3                | 3.0               | Support SXP IP Address as part of Node Details    | sxpIpAddress           | Added String Field <code>sxpIpAddress</code> . String represents SXP IP Address of the Node          |

#### Resource Definition

| Attribute         | Type    | Re-<br>quired | Description                         | Example Values                       |
|-------------------|---------|---------------|-------------------------------------|--------------------------------------|
| name              | String  | Yes           | Resource Name                       | TestNode                             |
| id                | String  | No            | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description       | String  | No            |                                     |                                      |
| gateWay           | String  | No            |                                     | 10.0.10.11                           |
| displayName       | String  | No            |                                     | TestNode                             |
| inDeployment      | Boolean | No            |                                     | false                                |
| ipAddresses       | String  | No            |                                     | [ “10.0.0.1”, “10.0.0.2” ]           |
| otherPapFqdn      | String  | No            |                                     | OtherTestNode                        |
| ipAddress         | String  | No            |                                     | 10.0.0.3                             |
| sxpIpAddress      | String  | No            |                                     | 10.10.10.1                           |
| nodeService-Types | String  | No            |                                     | DEVICE ADMIN                         |
| fqdn              | String  | No            |                                     | test.ers.cisco.com                   |
| primaryPapNode    | Boolean | No            |                                     | true                                 |
| papNode           | Boolean | No            |                                     | true                                 |
| pxGridNode        | Boolean | No            |                                     | true                                 |

**get\_node\_detail\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get node details by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_detail\_by\_name*

**get\_node\_detail\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get node details by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_node\_detail\_by\_id*

**get\_node\_details** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the node details. Filter: [nodeservice-types] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_node\_details*

**get\_node\_details\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the node details. Filter: [nodeservice-types] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)  
 Alias for `get_node_details_generator`

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the node details.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** `RestResponse`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

## pan\_ha

### class PanHa

Identity Services Engine PAN HA API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine PAN HA API and exposes the API as native Python methods that return native Python objects.

**get\_pan\_ha\_status** (*headers=None, \*\*query\_parameters*)

In a high availability configuration, the primary PAN is in active state. The secondary PAN (backup PAN) is in standby state, which means that it receives all the configuration updates from the primary PAN, but is not active in the Cisco ISE cluster. You can configure Cisco ISE to automatically promote the secondary PAN when the primary PAN becomes unavailable.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_pan\_ha** (*failed\_attempts=None, is\_enabled=None, polling\_interval=None, primary\_health\_check\_node=None, secondary\_health\_check\_node=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

To deploy the auto-failover feature, you must have at least three nodes, where two of the nodes assume the Administration persona, and one node acts as the health check node. A health check node is a non-administration node and can be a Policy Service, Monitoring, or pxGrid node, or any combination of these. If the PANs are in different data centers, you must have a health check node for each PAN. All the fields are mandatory to enable PanHA. Values of failedAttempts, pollingInterval, primaryHealthCheckNode, and secondaryHealthCheckNode are not considered when the isEnabled value is “false” in the request body.

#### Parameters

- **failed\_attempts** (*integer*) – Failover occurs if the primary PAN is down for the specified number of failure polls. Count (2 60). The default value is 5. , property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **polling\_interval** (*integer*) – Administration nodes are checked after each interval. Seconds (30 300) The default value is 120. , property of the request body.

- **primary\_health\_check\_node** (*object*) – primaryHealthCheckNode, property of the request body.
- **secondary\_health\_check\_node** (*object*) – secondaryHealthCheckNode, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## patching

### class Patching

Identity Services Engine Patching API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Patching API and exposes the API as native Python methods that return native Python objects.

**list\_installed\_hotpatches** (*headers=None, \*\*query\_parameters*)

List all the installed hot patches in the system. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`install_hotpatch`** (*hotpatch\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers hot patch installation on the Cisco ISE node. A task ID is returned which can be used to monitor the progress of the hot patch installation process. As hot patch installation triggers the Cisco ISE to restart, the task API becomes unavailable for a certain period of time. .

**Parameters**

- **`hotpatch_name`** (*string*) – hotpatchName, property of the request body.
- **`repository_name`** (*string*) – repositoryName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`rollback_hotpatch`** (*hotpatch\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers hot patch rollback on the Cisco ISE node. A task ID is returned which can be used to monitor the progress of the hot patch rollback process. As hot patch rollback triggers the Cisco ISE to restart, the task API becomes unavailable for a certain period of time. .

**Parameters**

- **`hotpatch_name`** (*string*) – hotpatchName, property of the request body.
- **`repository_name`** (*string*) – repositoryName, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**list\_installed\_patches** (*headers=None, \*\*query\_parameters*)

List all the installed patches in the system, with the patch number for rollback. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**install\_patch** (*patch\_name=None, repository\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers patch installation on the Cisco ISE node. A task ID is returned which can be used to monitor the progress of the patch installation process. As the patch installation triggers the Cisco ISE to restart, the task API becomes unavailable for a certain period of time. .

### Parameters

- **patch\_name** (*string*) – patchName, property of the request body.
- **repository\_name** (*string*) – repositoryName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**rollback\_patch** (*patch\_number=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Triggers patch rollback on the Cisco ISE node. A task ID is returned which can be used to monitor the progress of the patch rollback process. As the patch rollback triggers the Cisco ISE to restart, the task API becomes unavailable for a certain period of time. .

### Parameters

- **patch\_number** (*integer*) – patchNumber, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## portal\_global\_setting

### class PortalGlobalSetting

Identity Services Engine PortalGlobalSetting API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine PortalGlobalSetting API and exposes the API as native Python methods that return native Python objects.

The Portal Global Setting API allows the user to customize the text that is displayed in the Cisco ISE portals. This global setting controls whether HTML alone or both HTML and Javascript are permitted to be used in customized text.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute      | Type   | Re-quired | Description                              | Example Values                       |
|----------------|--------|-----------|--|--------------------------------------|
| id             | String | Yes       | Resource UUID value                      | 21013cb2-d030-4fb1-9ba2-35757634d770 |
| cus-tomization | Enum   | Yes       | Allowed values: HTML, HTMLAND-JAVASCRIPT | HTML                                 |

**get\_portal\_global\_setting\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get the portal global settings by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_portal_global_setting_by_id`*

**`update_portal_global_setting_by_id`** (*id*, *customization=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update the portal global settings by id.

#### Parameters

- **`customization`** (*string*) – Allowed values: HTML, HTMLANDJAVASCRIPT, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.
- **`id`** – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.



**update\_by\_id** (*id*, *customization=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                   *\*\*query\_parameters*)  
 Alias for *update\_portal\_global\_setting\_by\_id*

**get\_portal\_global\_settings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
                                   *sortasc=None*, *sortdsc=None*, *headers=None*,  
                                   *\*\*query\_parameters*)

This API allows the client to get all the portal global settings. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for [get\\_portal\\_global\\_settings](#)

**get\_portal\_global\_settings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portal global settings. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portal\_global\_settings\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the portal global setting .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## portal\_theme

### class PortalTheme

Identity Services Engine PortalTheme API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine PortalTheme API and exposes the API as native Python methods that return native Python objects.

Portal Theme API allows the client to add, delete, update and search Portal Theme among other operations which are available from all the portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

## Resource Definition

| At-tribute   | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       | Default Blue theme                   |
| id           | String | No        | Resource UUID, mandatory for update | 9eb421c0-8c01-11e6-996c-525400b48521 |
| descrip-tion | String | No        |                                     |                                      |
| theme-Data   | String | Yes       | Portal Theme for all portals        | Base 64 encoded string of CSS file   |

`get_portal_theme_by_id(id, headers=None, **query_parameters)`

This API allows the client to get a portal theme by ID.

## Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

`get_by_id(id, headers=None, **query_parameters)`

Alias for `get_portal_theme_by_id`

`update_portal_theme_by_id(id, description=None, name=None, theme_data=None, headers=None, payload=None, active_validation=True, **query_parameters)`

This API allows the client to update a portal theme by ID.

## Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **theme\_data** (*string*) – Portal Theme for all portals, property of the request body.

- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *description=None*, *name=None*, *theme\_data=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_portal\_theme\_by\_id*

**delete\_portal\_theme\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 This API deletes a portal theme by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_portal\_theme\_by\_id*

**get\_portal\_themes** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the portal themes. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for `get_portal_themes`

**get\_portal\_themes\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portal themes. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_portal\\_themes\\_generator\*](#)

**create\_portal\_theme** (*description=None, name=None, theme\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a portal theme.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **theme\_data** (*string*) – Portal Theme for all portals, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [\*RestResponse\*](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, theme\_data=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [\*create\\_portal\\_theme\*](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the portal theme.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## profiler

### **class Profiler**

Identity Services Engine Profiler API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Profiler API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_profiles** (*headers=None*, *\*\*query\_parameters*)  
getProfiles.

#### **Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### **Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## profiler\_profile

### class ProfilerProfile

Identity Services Engine ProfilerProfile API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine ProfilerProfile API and exposes the API as native Python methods that return native Python objects.

Profiler Profile API allows the client to search profiles.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Re-quired | Description                         | Example Values                       |
|-------------|--------|-----------|-------------------------------------|--------------------------------------|
| name        | String | Yes       | Resource Name                       | 2Wire-Device                         |
| id          | String | No        | Resource UUID, mandatory for update | fe8c7cc0-8bff-11e6-996c-525400b48521 |
| description | String | No        |                                     | Policy for 2Wire-Device              |
| parentId    | String | Yes       |                                     |                                      |

**get\_profiler\_profile\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a profiler profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for `get_profiler_profile_by_id`

**`get_profiler_profiles`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the profiler profiles. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_profiler\_profiles*

**`get_profiler_profiles_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the profiler profiles. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_profiler\_profiles\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the profiler profile.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## provider

### class Provider

Identity Services Engine Provider API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Provider API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**register\_service** (*name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
                          *\*\*query\_parameters*)

ServiceRegister.

#### Parameters

- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**unregister\_service** (*headers=None, \*\*query\_parameters*)  
ServiceUnregister.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**reregister\_service** (*headers=None, \*\*query\_parameters*)  
ServiceReregister.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**authorization** (*headers=None, \*\*query\_parameters*)  
Authorization.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**psn\_node\_details\_with\_radius\_service****class PsnNodeDetailsWithRadiusService**

Identity Services Engine PsnNodeDetailsWithRadiusService API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine PsnNodeDetailsWithRadiusService API and exposes the API as native Python methods that return native Python objects.

PSN Node Details with RADIUS Service API allows the client to get deployment node details where 'Session Services' is enabled.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

**Resource Definition**



| Attribute   | Type   | Re-quired | Description                         | Example Values                       |
|-------------|--------|-----------|-------------------------------------|--------------------------------------|
| name        | String | Yes       | Resource Name                       | TestNode                             |
| id          | String | No        | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description | String | No        |                                     | PSN with Session Service             |
| ipAddress   | String | Yes       |                                     | 10.0.0.1                             |

**get\_session\_service\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a PSN node details by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node\_by\_name*

**get\_session\_service\_node\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a PSN node details by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node\_by\_id*

**`get_session_service_node`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the PSN node details.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_session\_service\_node*

**`get_session_service_node_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the PSN node details.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_session\_service\_node\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the PSN node.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## pull\_deployment\_info

### class PullDeploymentInfo

Identity Services Engine PullDeploymentInfo API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine PullDeploymentInfo API and exposes the API as native Python methods that return native Python objects.

Pull Deployment Info API allows clients to get the complete information about a Cisco ISE deployment. The information includes details about the deployment, network access, NADs, MDMs, licenses, posture and profiler.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |

### Resource Definition

| Attribute         | Type    | Required | Description                         |
|-------------------|---------|----------|-------------------------------------|
| name              | String  | Yes      | Resource Name                       |
| id                | String  | No       | Resource UUID, mandatory for update |
| description       | String  | No       |                                     |
| networkAccessInfo | List    | No       | networkAccessInfo Details           |
| • deploymentID    | String  | Yes      | Deployment ID                       |
| • isCsnEnabled    | Boolean | Yes      | false                               |
| • nodeList        | List    | Yes      | Node list                           |

Continued on next page

Table 38 – continued from previous page

|                   |        |     |   |
|-------------------|--------|-----|---|
| • nodeAndScope    | List   | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean)   |
| • sdaVNs          | List   | No  |   |
| • trustSecControl | String | No  | ISE   |
| • radius3RdParty  | List   | No  |   |
| profilerInfo      | List   | No  | profilerInfo Details  |
| • deploymentID    | String | Yes | Deployment ID   |
| • nodeList        | List   | Yes | Node list   |
| • node            | List   | No  | Includes 'profiles' which is an array of dictionaries describing various attributes with the properties:- profile (List), - customProfilesCount (Integer), - endpointTypes (String), - totalProfilesCount (Integer), - uniqueEndpointsCount (Integer), - unknownEndpointsCount (Integer), - totalEndpointsCount (Integer), - unknownEndpointsPercentage (Integer) |
| deploymentInfo    | List   | No  | deploymentInfo Details  |
| • deploymentID    | String | Yes | Deployment ID   |

Continued on next page

Table 38 – continued from previous page

|                                |         |     |  |
|--------------------------------|---------|-----|--|
| • versionHistoryInfo           | List    | No  | Array of dictionaries describing various attributes with the properties:- opType (String), - mainVersion (String), - epochTime (Integer)   |
| • nodeList                     | List    | Yes | Node list  |
| • nodeAndNodeCountAndCountInfo | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declaredType (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| • fipsstatus                   | String  | No  | Disabled   |
| nadInfo                        | List    | No  | nadInfo Details  |
| • deploymentID                 | String  | Yes | Deployment ID  |
| • nodeList                     | List    | Yes | Node list  |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declaredType (String), - scope (String), - value (List), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean)   |
| • nadcountInfo                 | List    | No  |  |
| • totalActiveNADCount          | Integer | No  | 0  |
| mdmInfo                        | List    | No  | mdmInfo Details  |

Continued on next page

Table 38 – continued from previous page

|                                |         |     |   |
|--------------------------------|---------|-----|---|
| • activeMdmServersCount        | Integer | Yes | 0   |
| • activeDesktopMdmServersCount | Integer | Yes | 0   |
| • activeMobileMdmServersCount  | Integer | Yes | 0   |
| • deploymentID                 | String  | Yes | Deployment ID   |
| • nodeList                     | List    | Yes | Node list   |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| licensesInfo                   | List    | No  | licensesInfo Details  |
| • deploymentID                 | String  | Yes | Deployment ID   |
| • nodeList                     | List    | Yes | Node list   |
| • nodeAndScope                 | List    | No  | Includes 'content' which is an array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| postureInfo                    | List    | No  | postureInfo Details   |

Continued on next page

Table 38 – continued from previous page

|                |        |     |  |
|----------------|--------|-----|--|
| • content      | List   | Yes | Array of dictionaries describing various attributes with the properties:- name (String), - declared-Type (String), - scope (String), - value (Varies), - nil (Boolean), - globalScope (Boolean), - typeSubstituted (Boolean) |
| kongInfo       | List   | No  | kongInfo Details   |
| • deploymentID | String | Yes | Deployment ID  |
| • nodeList     | List   | Yes | Node list  |
| • node         | List   | No  | Array of dictionaries describing various attributes with the properties:- sn (String), - service (List)  |

**get\_deployment\_info** (*timeout=None, headers=None, \*\*query\_parameters*)

This API allows the client to pull the deployment information.

#### Parameters

- **timeout** (*float, tuple*) – How long to wait for the server to send data before giving up.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



**get\_all** (*timeout=None, headers=None, \*\*query\_parameters*)

Alias for *get\_deployment\_info*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pull deployment info.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## px\_grid\_settings

### class PxGridSettings

Identity Services Engine PxGridSettings API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine PxGridSettings API and exposes the API as native Python methods that return native Python objects.

pxGrid Settings API allows the client to change auto-approve settings for pxGrid nodes. **Note:** From Cisco ISE Release 3.1, all pxGrid connections must be based on pxGrid 2.0. pxGrid 1.0-based (XMPP-based) integrations will cease to work on Cisco ISE from Release 3.1 onwards. pxGrid Version 2.0, which is based on WebSockets, was introduced in Cisco ISE Release 2.4. We recommend that you plan and upgrade your other systems to pxGrid 2.0-compliant versions in order to prevent potential disruptions, if any, to integrations.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

## Resource Definition

| Attribute                     | Type    | Re-<br>quired | Description                                       | Default<br>Values | Example<br>Values |
|-------------------------------|---------|---------------|---|-------------------|-------------------|
| name                          | String  | Yes           | Resource Name                                     |                   |                   |
| id                            | String  | No            | Resource UUID, mandatory for update               |                   |                   |
| description                   | String  | No            |   |                   |                   |
| autoApproveCert-BasedAccounts | Boolean | Yes           | Auto approve certificate based accounts when true | false             | true              |
| allowPassword-BasedAccounts   | Boolean | Yes           | Allow password based accounts when true           | false             |                   |

**autoapprove\_px\_grid\_settings** (*allow\_password\_based\_accounts=None*,  
*auto\_approve\_cert\_based\_accounts=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to auto approve the pxGrid settings.

## Parameters

- **allow\_password\_based\_accounts** (*boolean*) – Allow password based accounts when true, property of the request body.
- **auto\_approve\_cert\_based\_accounts** (*boolean*) – Auto approve certificate based accounts when true, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**autoapprove** (*allow\_password\_based\_accounts=None*, *auto\_approve\_cert\_based\_accounts=None*,  
*headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *autoapprove\_px\_grid\_settings*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pxGrid settings.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## radius\_failure

### class RadiusFailure

Identity Services Engine RADIUS Failure API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine RADIUS Failure API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id, name, portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_failures** (*headers=None, \*\*query\_parameters*)  
getFailures.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**radius\_server\_sequence****class RadiusServerSequence**

Identity Services Engine RADIUSServerSequence API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine RADIUSServerSequence API and exposes the API as native Python methods that return native Python objects.

RADIUS Server Sequence API allows the client to add, delete, update, search and perform actions on RADIUS server sequence.

**Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |

**Resource Definition**

| Attribute                   | Type    | Required | Description   | Default Values | Example Values                                       |
|-----------------------------|---------|----------|---|----------------|--|
| name                        | String  | Yes      | Resource Name   |                | name   |
| id                          | String  | No       | Resource UUID, mandatory for update   |                | ab6deded-fcc2-47ff-8577-0014737c8fcf                 |
| description                 | String  | No       |   |                | description  |
| stripPrefix                 | Boolean | No       |   | false          |  |
| stripSuffix                 | Boolean | No       |   | false          |  |
| prefixSeparator             | String  | No       | The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character  |                |  |
| suffixSeparator             | String  | No       | The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character  | @              |  |
| remoteAccounting            | Boolean | No       |   | true           |  |
| localAccounting             | Boolean | No       |   | false          |  |
| useAttrSetOnRequest         | Boolean | No       |   | false          |  |
| useAttrSetBeforeAuth        | Boolean | No       |   | false          |  |
| continueAuthorizationPolicy | Boolean | No       |   | false          |  |
| radiusServers               | List    | Yes      | List with names of external radius server. The order of the names in the list is the order of servers that will be used during authentication |                | [ “externalRadiusServer1”, “externalRadiusServer2” ] |
| onRequestAttrManipulators   | List    | No       | The onRequestAttrManipulators is required only if useAttrSetOnRequest is true   |                |  |
| • AttributeManipulator      | Enum    | Yes      | Allowed Values: ADD, UPDATE, REMOVE, REMOVEANY  |                | ADD  |
| • action                    | String  | Yes      |   |                | Cisco  |

**get\_radius\_server\_sequence\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a RADIUS server sequence by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence\_by\_id*

**update\_radius\_server\_sequence\_by\_id** (*id*, *before\_accept\_attr\_manipulators\_list=None*, *continue\_authorz\_policy=None*, *description=None*, *local\_accounting=None*, *name=None*, *on\_request\_attr\_manipulator\_list=None*, *prefix\_separator=None*, *radius\_server\_list=None*, *remote\_accounting=None*, *strip\_prefix=None*, *strip\_suffix=None*, *suffix\_separator=None*, *use\_attr\_set\_before\_acc=None*, *use\_attr\_set\_on\_request=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a RADIUS server sequence.

#### Parameters

- **before\_accept\_attr\_manipulators\_list** (*list*) – The beforeAcceptAttrManipulators is required only if useAttrSetBeforeAcc is true, property of the request body (list of objects).
- **on\_request\_attr\_manipulator\_list** (*list*) – The onRequestAttrManipulators is required only if useAttrSetOnRequest is true, property of the request body (list of objects).
- **radius\_server\_list** (*list*) – RadiusServerList, property of the request body (list of strings).

- **continue\_authorz\_policy** (*boolean*) – continueAuthorzPolicy, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_separator** (*string*) – The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **strip\_prefix** (*boolean*) – stripPrefix, property of the request body.
- **strip\_suffix** (*boolean*) – stripSuffix, property of the request body.
- **suffix\_separator** (*string*) – The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character, property of the request body.
- **use\_attr\_set\_before\_acc** (*boolean*) – useAttrSetBeforeAcc, property of the request body.
- **use\_attr\_set\_on\_request** (*boolean*) – useAttrSetOnRequest, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, before_accept_attr_manipulators_list=None, continue_authorz_policy=None,
               description=None, local_accounting=None, name=None,
               on_request_attr_manipulator_list=None, prefix_separator=None, radius_server_list=None,
               remote_accounting=None, strip_prefix=None, strip_suffix=None, suffix_separator=None,
               use_attr_set_before_acc=None, use_attr_set_on_request=None, headers=None, payload=None,
               active_validation=True, **query_parameters)
```

Alias for `update_radius_server_sequence_by_id`

```
delete_radius_server_sequence_by_id (id, headers=None, **query_parameters)
```

This API deletes a RADIUS server sequence.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
delete_by_id (id, headers=None, **query_parameters)
```

Alias for `delete_radius_server_sequence_by_id`

```
get_radius_server_sequence (page=None, size=None, headers=None, **query_parameters)
```

This API allows the client to get all the RADIUS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence*

**`get_radius_server_sequence_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the RADIUS server sequences.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_radius\_server\_sequence\_generator*

```
create_radius_server_sequence (before_accept_attr_manipulators_list=None,  
                                continue_authorz_policy=None,           descrip-  
                                tion=None,           local_accounting=None,       name=None,  
                                on_request_attr_manipulator_list=None,       pre-  
                                fix_separator=None,           radius_server_list=None,  
                                remote_accounting=None,           strip_prefix=None,  
                                strip_suffix=None,           suffix_separator=None,  
                                use_attr_set_before_acc=None,  
                                use_attr_set_on_request=None,       headers=None,       pay-  
                                load=None, active_validation=True, **query_parameters)
```

This API creates a RADIUS server sequence.

#### Parameters

- **before\_accept\_attr\_manipulators\_list** (*list*) – The beforeAcceptAttrManipulators is required only if useAttrSetBeforeAcc is true, property of the request body (list of objects).
- **on\_request\_attr\_manipulator\_list** (*list*) – The onRequestAttrManipulators is required only if useAttrSetOnRequest is true, property of the request body (list of objects).
- **radius\_server\_list** (*list*) – RadiusServerList, property of the request body (list of strings).
- **continue\_authorz\_policy** (*boolean*) – continueAuthorzPolicy, property of the request body.
- **description** (*string*) – description, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_separator** (*string*) – The prefixSeparator is required only if stripPrefix is true. The maximum length is 1 character, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **strip\_prefix** (*boolean*) – stripPrefix, property of the request body.
- **strip\_suffix** (*boolean*) – stripSuffix, property of the request body.
- **suffix\_separator** (*string*) – The suffixSeparator is required only if stripSuffix is true. The maximum length is 1 character, property of the request body.
- **use\_attr\_set\_before\_acc** (*boolean*) – useAttrSetBeforeAcc, property of the request body.
- **use\_attr\_set\_on\_request** (*boolean*) – useAttrSetOnRequest, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*before\_accept\_attr\_manipulators\_list=None, continue\_authorz\_policy=None, description=None, local\_accounting=None, name=None, on\_request\_attr\_manipulator\_list=None, prefix\_separator=None, radius\_server\_list=None, remote\_accounting=None, strip\_prefix=None, strip\_suffix=None, suffix\_separator=None, use\_attr\_set\_before\_acc=None, use\_attr\_set\_on\_request=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_radius\_server\_sequence*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the RADIUS server sequence.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## restid\_store

### **class RestidStore**

Identity Services Engine RESTIDStore API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine RESTIDStore API and exposes the API as native Python methods that return native Python objects.

REST ID Store API allows clients to add, get, update and delete REST ID stores.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute             | Type   | Required | Description  | Example Values                          |
|-----------------------|--------|----------|--|---|
| name                  | String | Yes      | Resource Name  | RestIdStore1                            |
| id                    | String | No       | Resource UUID, mandatory for update  | b1155994-b736-46af-9add-04bed3058e3a    |
| description           | String | No       |  | Object that represents the restID store |
| restIdStoreAttributes | List   | Yes      | Holds the attributes of the restID object  |   |
| • usernameSuffix      | String | Yes      | Suffix of the user-name domain   | @place.com                              |
| • rootUrl             | String | Yes      | url of the root of the RestIDStore   | rootUrl                                 |
| • predefined          | Enum   | Yes      | The cloud provider connected to of the RestIDStore. Options are: - Azure, - Okta, - None | Azure                                   |
| • headers             | List   | Yes      | Headers for the RestIDStore  |   |
| • key                 | String | Yes      | Key of the header  | tenantID                                |
| • value               | String | Yes      | Value of the header  | tenantID_value                          |

**get\_rest\_id\_store\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a REST ID store by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_rest\_id\_store\_by\_name*

**update\_rest\_id\_store\_by\_name** (*name*, *description=None*, *ers\_rest\_idstore\_attributes=None*,  
*id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a REST ID store by name.

Parameters

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – *ersRestIDStoreAttributes*, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*basestring*) – name, property of the request body.
- **name** – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*name*, *description=None*, *ers\_rest\_idstore\_attributes=None*, *id=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_rest\_id\_store\_by\_name*

**delete\_rest\_id\_store\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a REST ID store by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_rest\_id\_store\_by\_name*

**get\_rest\_id\_store\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a REST ID store by ID.

**Parameters**

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for [get\\_rest\\_id\\_store\\_by\\_id](#)

**update\_rest\_id\_store\_by\_id**(*id*, *description=None*, *ers\_rest\_idstore\_attributes=None*,  
*name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a REST ID store.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – ersRestIDStoreAttributes, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id**(*id*, *description=None*, *ers\_rest\_idstore\_attributes=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for [update\\_rest\\_id\\_store\\_by\\_id](#)

**delete\_rest\_id\_store\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a REST ID store.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_rest\_id\_store\_by\_id*

**`get_rest_id_store`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the REST ID stores. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_rest\_id\_store*

**`get_rest_id_store_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the REST ID stores. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_rest_id_store_generator`

**create\_rest\_id\_store** (*description=None, ers\_rest\_idstore\_attributes=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a REST ID store.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **ers\_rest\_idstore\_attributes** (*object*) – `ersRestIDStoreAttributes`, property of the request body.
- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** `RestResponse`

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, ers\_rest\_idstore\_attributes=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_rest\_id\_store*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the REST ID store.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## repository

### class Repository

Identity Services Engine Repository API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Repository API and exposes the API as native Python methods that return native Python objects.

**get\_repositories** (*headers=None, \*\*query\_parameters*)

This will get the full list of repository definitions on the system. .

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_repositories*

**`create_repository`** (*enable\_pki=None, name=None, password=None, path=None, protocol=None, server\_name=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create a new repository in the system. The name provided for the repository must be unique. .

**Parameters**

- **`enable_pki`** (*boolean*) – enablePki, property of the request body.
- **`name`** (*string*) – Repository name should be less than 80 characters and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **`password`** (*string*) – Password can contain alphanumeric and/or special characters., property of the request body.
- **`path`** (*string*) – Path should always start with “/” and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **`protocol`** (*string*) – protocol, property of the request body. Available values are ‘CDROM’, ‘DISK’, ‘FTP’, ‘HTTP’, ‘HTTPS’, ‘NFS’, ‘SFTP’ and ‘TFTP’.
- **`server_name`** (*string*) – serverName, property of the request body.
- **`user_name`** (*string*) – Username may contain alphanumeric and \_./@\$ characters., property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*enable\_pki=None, name=None, password=None, path=None, protocol=None, server\_name=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_repository*

**get\_repository** (*repository\_name, headers=None, \*\*query\_parameters*)  
Get a specific repository identified by the name passed in the URL. .

#### Parameters

- **repository\_name** (*basestring*) – repositoryName path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*repository\_name, headers=None, \*\*query\_parameters*)  
Alias for *get\_repository*

**update\_repository** (*repository\_name, enable\_pki=None, name=None, password=None, path=None, protocol=None, server\_name=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update the definition of a specific repository, providing ALL parameters for the repository. .

#### Parameters

- **enable\_pki** (*boolean*) – enablePki, property of the request body.
- **name** (*string*) – Repository name should be less than 80 characters and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.
- **password** (*string*) – Password can contain alphanumeric and/or special characters., property of the request body.
- **path** (*string*) – Path should always start with “/” and can contain alphanumeric, underscore, hyphen and dot characters., property of the request body.

- **protocol** (*string*) – protocol, property of the request body. Available values are ‘CDROM’, ‘DISK’, ‘FTP’, ‘HTTP’, ‘HTTPS’, ‘NFS’, ‘SFTP’ and ‘TFTP’.
- **server\_name** (*string*) – serverName, property of the request body.
- **user\_name** (*string*) – Username may contain alphanumeric and \_-./@\$ characters., property of the request body.
- **repository\_name** (*basestring*) – repositoryName path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_name** (*repository\_name*, *enable\_pki=None*, *name=None*, *password=None*, *path=None*, *protocol=None*, *server\_name=None*, *user\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_repository*

**delete\_repository** (*repository\_name*, *headers=None*, *\*\*query\_parameters*)

Long description TBD .

#### Parameters

- **repository\_name** (*basestring*) – repositoryName path parameter. Unique name for a repository.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*repository\_name*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_repository*

**`get_repository_files`** (*repository\_name*, *headers=None*, *\*\*query\_parameters*)

This will get the full list of files present in the named repository. .

**Parameters**

- **`repository_name`** (*basestring*) – repositoryName path parameter. Unique name for a repository.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_files`** (*repository\_name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_repository\_files*



## sms\_provider

### class SmsProvider

Identity Services Engine SMSProvider API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SMSProvider API and exposes the API as native Python methods that return native Python objects.

SMS Provider API allows the client to search the SMS providers configured from Cisco ISE GUI.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Example Values                       |
|-------------|--------|----------|-------------------------------------|--------------------------------------|
| name        | String | Yes      | Resource Name                       | name                                 |
| id          | String | No       | Resource UUID, mandatory for update | b1155994-b736-46af-9add-04bed3058e3a |
| description | String | No       |                                     |                                      |

**get\_sms\_provider** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SMS providers. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW:

Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sms\_provider*

**get\_sms\_provider\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SMS providers. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW:

Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sms\_provider\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SMS provider.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- *MalformedRequest* – If the request body created is invalid.
- *ApiError* – If the Identity Services Engine cloud returns an error.

## sxp\_connections

### class SxpConnections

Identity Services Engine SXPConnections API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SXPConnections API and exposes the API as native Python methods that return native Python objects.

SXP Connections API allows clients to add, get, update and delete the Security Group Tag (SGT) Exchange Protocol (SXP) connections.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                 | Revision Modification | Revision Modification                              |
|------------|------------------|-------------------|-----------------------------|-----------------------|--|
|            |                  |                   |                             | Attribute             | Description  |
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version   |                       |  |
| 1          | 1.1              | 3.0               | Cisco ISE 3.0 model changes | sxpVpn                | Attribute can include some VPNs separated by comma |

### Resource Definition

| Attribute   | Type    | Required | Description         | Example Values                       |
|-------------|---------|----------|---------------------|--------------------------------------|
| name        | String  | Yes      | Resource Name       |                                      |
| id          | String  | No       | Resource UUID value | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| description | String  | No       |                     | Brief description about network peer |
| sxpPeer     | String  | Yes      |                     | Sxp Peer Name                        |
| sxpVpn      | String  | Yes      |                     | Sxp VPN Name                         |
| sxpNode     | String  | Yes      |                     | Sxp Node Name                        |
| ipAddress   | String  | Yes      |                     | Sxp Peer IP address                  |
| sxpMode     | String  | Yes      |                     | Sxp Mode                             |
| sxpVersion  | String  | Yes      |                     | Sxp Version                          |
| enabled     | Boolean | Yes      |                     | true                                 |

**get\_sxp\_connections\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP connection by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_connections\_by\_id*

**update\_sxp\_connections\_by\_id** (*id*, *description=None*, *enabled=None*, *ip\_address=None*, *sxp\_mode=None*, *sxp\_node=None*, *sxp\_peer=None*, *sxp\_version=None*, *sxp\_vpn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a SXP connection.

### Parameters

- **description** (*string*) – description, property of the request body.
- **enabled** (*boolean*) – enabled, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_address** (*string*) – ipAddress, property of the request body.
- **sxp\_mode** (*string*) – sxpMode, property of the request body.
- **sxp\_node** (*string*) – sxpNode, property of the request body.
- **sxp\_peer** (*string*) – sxpPeer, property of the request body.
- **sxp\_version** (*string*) – sxpVersion, property of the request body.
- **sxp\_vpn** (*string*) – sxpVpn, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *description=None*, *enabled=None*, *ip\_address=None*, *sxp\_mode=None*, *sxp\_node=None*, *sxp\_peer=None*, *sxp\_version=None*, *sxp\_vpn=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *`update_sxp_connections_by_id`*

**`delete_sxp_connections_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a SXP connection.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sxp_connections_by_id`*

**`get_sxp_connections`**(*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP connections. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_sxp\_connections*

**get\_sxp\_connections\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SXP connections. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sxp\_connections\_generator*

**create\_sxp\_connections** (*description=None, enabled=None, ip\_address=None, sxp\_mode=None, sxp\_node=None, sxp\_peer=None, sxp\_version=None, sxp\_vpn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a SXP connection.



### Parameters

- **description** (*string*) – description, property of the request body.
- **enabled** (*boolean*) – enabled, property of the request body.
- **ip\_address** (*string*) – ipAddress, property of the request body.
- **sxp\_mode** (*string*) – sxpMode, property of the request body.
- **sxp\_node** (*string*) – sxpNode, property of the request body.
- **sxp\_peer** (*string*) – sxpPeer, property of the request body.
- **sxp\_version** (*string*) – sxpVersion, property of the request body.
- **sxp\_vpn** (*string*) – sxpVpn, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, enabled=None, ip\_address=None, sxp\_mode=None, sxp\_node=None, sxp\_peer=None, sxp\_version=None, sxp\_vpn=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *create\_sxp\_connections*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP connections.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_sxp\_connections** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – `operationType`, property of the request body.
- **`resource_media_type`** (*string*) – `resourceMediaType`, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_request\_for\_sxp\_connections*

**monitor\_bulk\_status\_sxp\_connections** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

**Parameters**

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_sxp\_connections*

## sxp\_local\_bindings

### class SxpLocalBindings

Identity Services Engine SXPLocalBindings API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SXPLocalBindings API and exposes the API as native Python methods that return native Python objects.

SXP Local Bindings API allows clients to add, get, update and delete SGT static mappings.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description                 | Revision Modification | Revision Modification                       |
|------------|------------------|-------------------|-----------------------------|-----------------------|---|
|            |                  |                   |                             | Attribute             | Description                                 |
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version   |                       |   |
| 1          | 1.1              | 3.0               | Cisco ISE 3.0 model changes | vns                   | Added new property for the Virtual Networks |

## Resource Definition

| Attribute       | Type   | Required | Description  | Example Values                       |
|-----------------|--------|----------|--|--------------------------------------|
| name            | String | Yes      | Resource Name  |                                      |
| id              | String | No       | Resource UUID value  | f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69 |
| description     | String | No       |  |                                      |
| binding-Name    | String | No       | This field is deprecated from Cisco ISE 3.0  |                                      |
| ipAddressOrHost | String | Yes      | IP address for static mapping (hostname is not supported)  | ipAddressOrHost                      |
| sgt             | String | Yes      | SGT name or ID   | sgt_id                               |
| sxpVpn          | String | Yes      | List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined      | Sxp Vpn Name                         |
| vns             | String | Yes      | List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined | virtualNetwork                       |

**get\_sxp\_local\_bindings\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP local binding by ID.

## Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_local\_bindings\_by\_id*

```
update_sxp_local_bindings_by_id(id, binding_name=None, description=None,
                                ip_address_or_host=None, sgt=None, sxp_vpn=None,
                                vns=None, headers=None, payload=None, ac-
                                tive_validation=True, **query_parameters)
```

This API allows the client to update a SXP local binding.

#### Parameters

- **binding\_name** (*string*) – This field is deprecated from Cisco ISE 3.0, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_address\_or\_host** (*string*) – IP address for static mapping (hostname is not supported), property of the request body.
- **sgt** (*string*) – SGT name or ID, property of the request body.
- **sxp\_vpn** (*string*) – List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **vns** (*string*) – List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, binding_name=None, description=None, ip_address_or_host=None, sgt=None,
             sxp_vpn=None, vns=None, headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_sxp\_local\_bindings\_by\_id*

```
delete_sxp_local_bindings_by_id(id, headers=None, **query_parameters)
```

This API deletes a SXP local binding.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sxp\_local\_bindings\_by\_id*

**get\_sxp\_local\_bindings** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP local bindings. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sxp\_local\_bindings*

**get\_sxp\_local\_bindings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the SXP local bindings. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sxp\_local\_bindings\_generator*

**create\_sxp\_local\_bindings** (*binding\_name=None, description=None, id=None, ip\_address\_or\_host=None, sgt=None, sxp\_vpn=None, vns=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a SXP local binding.

### Parameters

- **binding\_name** (*string*) – This field is deprecated from Cisco ISE 3.0, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **ip\_address\_or\_host** (*string*) – IP address for static mapping (hostname is not supported), property of the request body.
- **sgt** (*string*) – SGT name or ID, property of the request body.
- **sxp\_vpn** (*string*) – List of SXP Domains, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **vns** (*string*) – List of Virtual Networks, separated with comma. At least one of: sxpVpn or vns should be defined, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*binding\_name=None, description=None, id=None, ip\_address\_or\_host=None, sgt=None, sxp\_vpn=None, vns=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sxp\_local\_bindings*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP local bindings.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_sxp\_local\_bindings** (*operation\_type=None, source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_sxp\_local\_bindings*

**monitor\_bulk\_status\_sxp\_local\_bindings** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_sxp\_local\_bindings*

## sxp\_vpns

### class SxpVpns

Identity Services Engine SXPVPNs API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SXPVPNs API and exposes the API as native Python methods that return native Python objects.

SXP VPNs API allows clients to add, get and delete SXP VPNs (SXP Domains).

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.0               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description         | Example Values                       |
|-------------|--------|----------|---------------------|--------------------------------------|
| name        | String | Yes      | Resource Name       |                                      |
| id          | String | No       | Resource UUID value | ef36ca16-0cf7-4806-b2a9-6f547cfe4805 |
| description | String | No       |                     |                                      |
| sxpVpnName  | String | Yes      |                     | default                              |

**get\_sxp\_vpn\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a SXP VPN by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_sxp_vpn_by_id`*

**`delete_sxp_vpn_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a SXP VPN.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sxp_vpn_by_id`*

**`get_sxp_vpns`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP VPNs. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_vpns*

**get\_sxp\_vpns\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the SXP VPNs. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.

- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sxp\_vpns\_generator*

**create\_sxp\_vpn** (*sxp\_vpn\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API creates a SXP VPN.

### Parameters

- **sxp\_vpn\_name** (*string*) – sxpVpnName, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*sxp\_vpn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sxp\_vpn*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the SXP VPNs.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_sxp\_vpns** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_sxp\_vpns*

**monitor\_bulk\_status\_sxp\_vpns** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises



- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_sxp\_vpns*

## security\_group\_to\_virtual\_network

### class SecurityGroupToVirtualNetwork

Identity Services Engine SecurityGroupToVirtualNetwork API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SecurityGroupToVirtualNetwork API and exposes the API as native Python methods that return native Python objects.

SGT mapping to virtual networks are mapped to referenced vlan. These constructs come from out side of Cisco ISE and are not CRUDable inside Cisco ISE.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.3               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute            | Type   | Required | Description  | Example Values   |
|----------------------|--------|----------|--|--|
| name                 | String | Yes      | Resource Name  | name   |
| id                   | String | No       | Resource UUID, mandatory for update  | 1af3d6e2-cc3b-4603-b80f-6827768335ab   |
| description          | String | No       |  | description  |
| sgtId                | String | No       |  | sgt_id   |
| virtual-network-list | List   | No       | Includes 'vlans' which is an array of dictionaries describing various attributes with the properties: - id (String), - name (String), - description (String), - defaultVlan (Boolean), - maxVlan (Integer), - data (Boolean) | <pre> {id": "1af3d6e2-cc3b-4603-b80f-6827768335ab", "name": "virtual1", "description": "description", "defaultVirtualNetwork": false, "vlans": [ { "id": "1af3d6e2-cc3b-4603-b80f-6827768335ab", "name": "vlan1", "description": "description1", "defaultVlan": true, "maxVlan": 1882725260, "data": true } ] } ] </pre> |

**get\_security\_groups\_to\_vn\_to\_vlan\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group to virtual network by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_groups\_to\_vn\_to\_vlan\_by\_id*

**update\_security\_groups\_to\_vn\_to\_vlan\_by\_id** (*id*, *description=None*, *name=None*,  
*sgt\_id=None*, *virtualnetwork-*  
*list=None*, *headers=None*, *pay-*  
*load=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a security group to virtual network.

### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **sgt\_id** (*string*) – sgtId, property of the request body.
- **virtualnetworklist** (*list*) – virtualnetworklist, property of the request body (list of objects).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`**(*id*, *description=None*, *name=None*, *sgt\_id=None*, *virtualnetworklist=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for `update_security_groups_to_vn_to_vlan_by_id`

**`delete_security_groups_to_vn_to_vlan_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a security group ACL to virtual network.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for `delete_security_groups_to_vn_to_vlan_by_id`

**`get_security_groups_to_vn_to_vlan`**(*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security group ACL to virtual networks. Filter: [sgtId] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13

Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

Date:GET

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request’s response
- **text(str)**: representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_to\_vn\_to\_vlan*

**get\_security\_groups\_to\_vn\_to\_vlan\_generator** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security group ACL to virtual networks. Filter: [sgtId] To search guest users by using toDate column, follow the format: DD- MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

```
get_all_generator (filter=None, filter_type=None, page=None, size=None, headers=None,  
                  **query_parameters)
```

Alias for `get_security_groups_to_vn_to_vlan_generator`

```
create_security_groups_to_vn_to_vlan(description=None, id=None, name=None,  
                                     sgt_id=None, virtualnetworklist=None,  
                                     headers=None, payload=None, ac-  
tive_validation=True,**query_parameters)
```

This API creates a security group to virtual network.

## Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.

- **sgt\_id** (*string*) – sgtId, property of the request body.
- **virtualnetworklist** (*list*) – virtualnetworklist, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, id=None, name=None, sgt\_id=None, virtualnetworklist=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_groups\_to\_vn\_to\_vlan*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security group to virtual network.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_groups\_to\_vn\_to\_vlan** (*operation\_type=None, re-source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_security\_groups\_to\_vn\_to\_vlan*

**monitor\_bulk\_status\_security\_groups\_to\_vn\_to\_vlan** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_groups\_to\_vn\_to\_vlan*

**security\_groups****class SecurityGroups**

Identity Services Engine SecurityGroups API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SecurityGroups API and exposes the API as native Python methods that return native Python objects.

SGT API allows the client to search SGTs.

**Revision History**

| Re-vi-sion # | Re-source Version | Cisco ISE Version | Description                 | Revision Modifica-tion | Revision Modification   |
|--------------|-------------------|-------------------|-----------------------------|------------------------|---|
|              |                   |                   |                             | Attribute              | Description   |
| 0            | 1.0               | 1.2               | Initial Cisco ISE Version   |                        |   |
| 1            | 1.1               | 1.4               | Cisco ISE 1.4 model changes | isTagFrom-Range        | Removed Attribute isTagFromRange - depricated - set to FALSE value by default |
| 2            | 1.2               | 2.3               | Cisco ISE 2.3 model changes | propagate-ToApic       | Added Boolean Attribute propagate-ToApic - By default value is false          |
| 3            | 1.3               | 2.7               | Cisco ISE 2.7 model changes | isRead-Only            | Added Boolean Attribute isReadOnly - By default value is false                |
|              |                   |                   |                             | defaultS-GACLs         | Added List Attribute defaultSGACLs  |



## Resource Definition

| Attribute        | Type    | Re-quired | Description                                    | Default Values | Example Values                       |
|------------------|---------|-----------|--|----------------|--------------------------------------|
| name             | String  | Yes       | Resource Name                                  |                | Employees                            |
| id               | String  | No        | Resource UUID, mandatory for update            |                | 93ad6890-8c01-11e6-996c-525400b48521 |
| description      | String  | No        |  |                | Employee Security Group              |
| value            | Integer | Yes       | Value range: 2 to 65519 or -1 to auto-generate |                | 4                                    |
| propagate-ToApic | Boolean | No        |  |                | true                                 |
| isRead-Only      | Boolean | No        |  | false          |                                      |
| defaultS-GACLs   | List    | No        |  |                | [ ]                                  |
| propagate-ToApic | Boolean | No        |  |                | true                                 |
| generationId     | Integer | No        |  |                | 0                                    |

**get\_security\_group\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group by ID.

## Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

## Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_group\_by\_id*

```
update_security_group_by_id(id, default_sgacIs=None, description=None, generation_id=None, is_read_only=None, name=None, propagate_to_apic=None, value=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a security group.

#### Parameters

- **default\_sgacIs** (*list*) – defaultSGACLs, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **name** (*string*) – name, property of the request body.
- **propagate\_to\_apic** (*boolean*) – propagateToApic, property of the request body.
- **value** (*integer*) – Value range: 2 to 65519 or -1 to auto- generate, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, default_sgacIs=None, description=None, generation_id=None, is_read_only=None, name=None, propagate_to_apic=None, value=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_security_group_by_id`

```
delete_security_group_by_id(id, headers=None, **query_parameters)
```

This API deletes a security group.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_security\_group\_by\_id*

**get\_security\_groups** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security groups. Filter: [propagateToApic, name, description, value] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description, value].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups*

**get\_security\_groups\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security groups. Filter: [propagateToApic, name, description, value] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description, value].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_generator*

**create\_security\_group** (*default\_sgacls=None, description=None, generation\_id=None, is\_read\_only=None, name=None, propogate\_to\_apic=None, value=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a security group.

### Parameters

- **default\_sgacls** (*list*) – defaultSGACLs, property of the request body (list of objects).
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **name** (*string*) – name, property of the request body.
- **propogate\_to\_apic** (*boolean*) – propogateToApic, property of the request body.
- **value** (*integer*) – Value range: 2 ot 65519 or -1 to auto- generate, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*default\_sgacIs=None, description=None, generation\_id=None, is\_read\_only=None, name=None, propagate\_to\_apic=None, value=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security groups.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_group** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **`operation_type`** (*string*) – operationType, property of the request body.

- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_security\_group*

**monitor\_bulk\_status\_security\_group** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- *MalformedRequest* – If the request body created is invalid.
- *ApiError* – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_group*

## security\_groups\_acls

### class SecurityGroupsAcls

Identity Services Engine SecurityGroupsACLs API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SecurityGroupsACLs API and exposes the API as native Python methods that return native Python objects.

Security Groups ACLs API allows the client to search security groups access control lists.

### Revision History

| Revi-<br>sion<br># | Resource<br>Version | Cisco ISE<br>Version | Description                 | Revision<br>Modification | Revision Modification                      |
|--------------------|---------------------|----------------------|-----------------------------|--------------------------|--|
|                    |                     |                      |                             | Attribute                | Description                                |
| 0                  | 1.0                 | 2.0                  | Initial Cisco ISE Version   |                          |  |
| 1                  | 1.1                 | 2.3                  | Introducing bulk operations |                          |  |
| 2                  | 1.2                 | 3.1                  | Cisco ISE 3.1 model changes | modelledContent          | Adding modelled content from Cisco ISE 3.1 |

### Resource Definition



| Attribute        | Type    | Required | Description  | Default Values | Example Values                       |
|------------------|---------|----------|--|----------------|--------------------------------------|
| name             | String  | Yes      | Resource Name  |                | Permit IP                            |
| id               | String  | No       | Resource UUID, mandatory for update  |                | 92951ac0-8c01-11e6-996c-525400b48521 |
| description      | String  | No       |  |                | Permit IP SGACL                      |
| ACLContent       | String  | No       |  |                | permit ip                            |
| ipVersion        | Enum    | Yes      | Allowed values: IPV4, IPV6, IP_AGNOSTIC                                    | IPV4           |                                      |
| isRead-Only      | Boolean | No       |  | false          |                                      |
| generationId     | String  | No       | GenerationId is a read only attribute and is being generated by the server |                | 0                                    |
| modelled-Content | List    | No       | Modelled content of contract   |                |                                      |

**get\_security\_groups\_acl\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a security group ACL by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_security\_groups\_acl\_by\_id*

```
update_security_groups_acl_by_id(id, aclcontent=None, description=None, generation_id=None, ip_version=None, is_read_only=None, modelled_content=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

This API allows the client to update a security group ACL.

#### Parameters

- **aclcontent** (*string*) – aclcontent, property of the request body.
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **ip\_version** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **modelled\_content** (*object*) – Modelled content of contract, property of the request body.
- **name** (*string*) – name, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, aclcontent=None, description=None, generation_id=None, ip_version=None, is_read_only=None, modelled_content=None, name=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for *update\_security\_groups\_acl\_by\_id*

```
delete_security_groups_acl_by_id(id, headers=None, **query_parameters)
```

This API deletes a security group ACL.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_security\_groups\_acl\_by\_id*

**get\_security\_groups\_acl** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the security group ACLs. Filter: [ipVersion, name, description] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [ipVersion, name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_acl*

**get\_security\_groups\_acl\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the security group ACLs. Filter: [ipVersion, name, description] To search guest users by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [ipVersion, name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_security\_groups\_acl\_generator*

**create\_security\_groups\_acl** (*aclcontent=None, description=None, generation\_id=None, ip\_version=None, is\_read\_only=None, modelled\_content=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a security group ACL.

### Parameters

- **aclcontent** (*string*) – aclcontent, property of the request body.
- **description** (*string*) – description, property of the request body.
- **generation\_id** (*string*) – generationId, property of the request body.
- **ip\_version** (*string*) – Allowed values: IPV4, IPV6, IP\_AGNOSTIC, property of the request body.
- **is\_read\_only** (*boolean*) – isReadOnly, property of the request body.
- **modelled\_content** (*object*) – Modelled content of contract, property of the request body.
- **name** (*string*) – name, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*aclcontent=None, description=None, generation\_id=None, ip\_version=None, is\_read\_only=None, modelled\_content=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_security\_groups\_acl*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the security group ACLs.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_security\_groups\_acl** (*operation\_type=None, re-source\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

**Parameters**

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_request\_for\_security\_groups\_acl*

**monitor\_bulk\_status\_security\_groups\_acl** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**monitor\_bulk\_status** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_security\_groups\_acl*

## self\_registered\_portal

### class SelfRegisteredPortal

Identity Services Engine SelfRegisteredPortal API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SelfRegisteredPortal API and exposes the API as native Python methods that return native Python objects.

Self Registered Guest Portal API provides the ability to create, read, update, delete and search self registered portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Default Values | Example Values  |
|-------------|--------|----------|-------------------------------------|----------------|---|
| name        | String | Yes      | Resource Name                       |                | Self-Registered Guest Portal (default)  |
| id          | String | No       | Resource UUID, mandatory for update |                | 4e8ade36-4048-472a-b345-632cc155acfc  |
| description | String | No       |                                     |                | Guests may create their own accounts and be assigned a username and password, or use their social login to access the network |

Continued on next page



Table 39 – continued from previous page

|                        |         |     |  |              |   |
|------------------------|---------|-----|--|--------------|---|
| portalTestUrl          | String  | No  | URL to bring up a test page for this portal  |              | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?po4048-472a-b345-632cc155acfc">https://{ise-ip}:8443/portal/PortalSetup.action?po4048-472a-b345-632cc155acfc</a> |
| portalType             | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDE-VICE, SELF-REGGUEST, SPONSOR, SPON-SOREDQUEST | SELFREGGUEST |   |
| settings               | List    | No  | Defines all of the settings groups available for a portal                              |              |   |
| • portalSettings       | List    | No  | The port, interface, certificate, and other basic settings of a portal                 |              |   |
| • httpsPort            | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999    |              | 8443  |
| • allowedInterfaces    | Enum    | Yes | Interfaces that the portal will be reachable on.                                       |              | [ “eth0”, “bond0” ]   |
| • certificateGroupTag  | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal          |              | Default Portal Certificate Group  |
| • authenticationMethod | String  | Yes | Unique Id of the identity source sequence  |              | 92e50f80-8c01-11e6-996c-525400b48521  |

Continued on next page

Table 39 – continued from previous page

|                                    |         |     |   |        |                      |
|------------------------------------|---------|-----|---|--------|----------------------|
| • assignedGuestTypeForEmployee     | String  | Yes | Unique Id of a guest type. Employees using this portal as a guest inherit login options from the guest type |        | Contractor (default) |
| • displayLang                      | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE   |        | USEBROWSERLOCALE     |
| • fallbackLanguage                 | String  | No  | Used when displayLang = USE-BROWSER-LOCALE  |        | English              |
| • alwaysUsedLanguage               | String  | No  | Used when displayLang = ALWAYSUSE   |        | English              |
| • loginPageSettings                | List    | No  | Portal Login Page settings groups follow  |        |                      |
| • maxFailedAttemptsBeforeRateLimit | Integer | No  | Maximum failed login attempts before rate limiting  | 5      |                      |
| • timeBetweenLoginsDuringRateLimit | Integer | No  | Time between login attempts when rate limiting  | 2      |                      |
| • includeAup                       | Boolean | No  | Include an Acceptable Use Policy (AUP) that should be displayed during login                                | false  |                      |
| • aupDisplay                       | Enum    | No  | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.              | ASLINK |                      |

Continued on next page

Table 39 – continued from previous page

|                              |         |    |  |       |       |
|------------------------------|---------|----|--|-------|-------|
| • requireAupAcceptance       | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                   | false |       |
| • requireAccessCode          | Boolean | No | Require the portal user to enter an access code  | false |       |
| • accessCode                 | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true) |       |       |
| • allowGuestToCreateAccounts | Boolean | No |  | false |       |
| • allowGuestToChangePassword | Boolean | No | Require the portal user to enter an access code  | false |       |
| • allowAlternateGuestPortal  | Boolean | No |  |       | false |
| • alternateGuestPortal       | String  | No |  |       |       |
| • selfRegPageSettings        | List    | No |  |       |       |
| • assignGuestsToGuestType    | String  | No | Guests are assigned to this guest type   |       |       |
| • accountValidityDuration    | Integer | No | Self-registered guest account is valid for this many account_validity_time_units             | 1     |       |
| • accountValidityTimeUnits   | Enum    | No | Time units for account_validity_duration.  | DAYS  |       |

Continued on next page

Table 39 – continued from previous page

|                           |         |    |  |       |       |
|---------------------------|---------|----|--|-------|-------|
| • requireRegistrationCode | Boolean | No | Self-registered guests are required to enter a registration code | false |       |
| • registrationCode        | String  | No | The registration code that the guest user must enter             |       |       |
| • fieldUserName           | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldFirstName          | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldLastName           | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |
| • fieldEmailAddr          | List    | No |  |       |       |
| • include                 | Boolean | No |  |       | true  |
| • require                 | Boolean | No | Only applicable if include = true                                |       | false |

Continued on next page

Table 39 – continued from previous page

|                          |         |    |   |  |                    |
|--------------------------|---------|----|---|--|--------------------|
| • fieldPhoneNo           | List    | No |   |  |                    |
| • include                | Boolean | No |   |  | true               |
| • require                | Boolean | No | Only applicable if include = true                             |  | false              |
| • fieldCompany           | List    | No |   |  |                    |
| • include                | Boolean | No |   |  | true               |
| • require                | Boolean | No | Only applicable if include = true                             |  | false              |
| • fieldLocation          | List    | No |   |  |                    |
| • include                | Boolean | No |   |  | true               |
| • require                | Boolean | No | Only applicable if include = true                             |  | false              |
| • selectableLocations    | List    | No | Guests can choose from these locations to set their time zone |  | [“San Jose”]       |
| • fieldSmsProvider       | List    | No |   |  |                    |
| • include                | Boolean | No |   |  | true               |
| • require                | Boolean | No | Only applicable if include = true                             |  | false              |
| • selectableSmsProviders | List    | No | This attribute is an array of SMS provider names              |  | [“Global Default”] |

Continued on next page

Table 39 – continued from previous page

|                             |         |    |  |        |       |
|-----------------------------|---------|----|--|--------|-------|
| • fieldPersonBeingVisited   | List    | No |  |        |       |
| • include                   | Boolean | No |  |        | true  |
| • require                   | Boolean | No | Only applicable if include = true  |        | false |
| • fieldReasonForVisit       | List    | No |  |        |       |
| • include                   | Boolean | No |  |        | true  |
| • require                   | Boolean | No | Only applicable if include = true  |        | false |
| • includeAup                | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login                   | false  |       |
| • aupDisplay                | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. | ASLINK |       |
| • requireAupAcceptance      | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                     | false  |       |
| • enableGuestEmailWhitelist | Boolean | No | Allow guests with an e-mail address from selected domains                                      | false  |       |

Continued on next page

Table 39 – continued from previous page

|                                 |         |    |   |       |  |
|---------------------------------|---------|----|---|-------|--|
| •<br>guestEmailWhitelistDomains | List    | No | Self-registered guests whose e-mail address is in one of these domains will be allowed. Only valid if enableGuestEmailWhitelist = true    |       |  |
| •<br>enableGuestEmailBlacklist  | Boolean | No | Disallow guests with an e-mail address from selected domains  | false |  |
| •<br>guestEmailBlacklistDomains | List    | No | Self-registered guests whose e-mail address is in one of these domains will be disallowed. Only valid if enableGuestEmailBlacklist = true |       |  |
| •<br>requireGuestApproval       | Boolean | No | Require self-registered guests to be approved if true   | false |  |
| •<br>autoLoginSelfWait          | Boolean | No | Allow guests to login automatically from self-registration after sponsor's approval. No need to provide the credentials by guest to login | false |  |

Continued on next page

Table 39 – continued from previous page

|                                  |         |    |   |                         |  |
|----------------------------------|---------|----|---|-------------------------|--|
| •<br>autoLoginTimePeriod         | Integer | No | Waiting period for auto login until sponsor's approval. If time exceeds, guest has to login manually by providing the credentials. Default value is 5 minutes | 5                       |  |
| •<br>sendApprovalRequestTo       | Enum    | No | Specifies where approval requests are sent. Only valid if requireGuestApproval = true.  | SELECTEDEMAILADDRESSES  |  |
| •<br>approvalEmailAddresses      | String  | No | Only valid if requireGuestApproval = true and sendApprovalRequestTo = SELECTEDEMAILADDRESSES  |                         |  |
| •<br>postRegistrationRedirect    | Enum    | No | After the registration submission direct the guest user to one of the following pages. Only valid if requireGuestApproval = true.                             | SELFREGISTRATIONSUCCESS |  |
| •<br>postRegistrationRedirectUrl | String  | No | URL where guest user is redirected after registration. Only valid if requireGuestApproval = true and postRegistrationRedirect = URL                           |                         |  |

Continued on next page



Table 39 – continued from previous page

|                                    |         |    |  |       |  |
|------------------------------------|---------|----|--|-------|--|
| • credentialNotificationUsingEmail | Boolean | No | If true, send credential notification upon approval using email. Only valid if requireGuestApproval = true                               | false |  |
| • credentialNotificationUsingSms   | Boolean | No | If true, send credential notification upon approval using SMS. Only valid if requireGuestApproval = true                                 | false |  |
| • approveDenyLinksValidFor         | Integer | No | This attribute, along with approveDenyLinksTimeUnits, specifies how long the link can be used. Only valid if requireGuestApproval = true | 1440  |  |
| • approveDenyLinksTimeUnits        | Enum    | No | This attribute, along with approveDenyLinksValidFor, specifies how long the link can be used. Only valid if requireGuestApproval = true. | DAYS  |  |

Continued on next page

Table 39 – continued from previous page

|                                    |         |    |   |       |  |
|------------------------------------|---------|----|---|-------|--|
| •<br>requireApproverToAuthenticate | Boolean | No | When self-registered guests require approval, an approval request is e-mailed to one or more sponsor users. If the Cisco ISE Administrator chooses to include an approval link in the e-mail, a sponsor user who clicks the link will be required to enter their username and password if this attribute is true. Only valid if requireGuestApproval = true | false |  |
|------------------------------------|---------|----|---|-------|--|

Continued on next page

Table 39 – continued from previous page

|                             |         |    |   |      |  |
|-----------------------------|---------|----|---|------|--|
| •<br>sponsorPortalList      | List    | No | When self-registered guests require approval, an approval request is e-mailed to one or more sponsor users. If the Cisco ISE Administrator chooses to include an approval link in the e-mail, a sponsor user who clicks the link will be authenticated against the selected sponsor portals in the order specified. Only valid if requireGuestApproval = true. The array should contain the names of the selected portals |      |  |
| •<br>selfRegSuccessSettings | List    | No |   |      |  |
| •<br>includeUserName        | Boolean | No |   | true |  |
| •<br>includePassword        | Boolean | No |   | true |  |
| •<br>includeFirstName       | Boolean | No |   | true |  |
| •<br>includeLastName        | Boolean | No |   | true |  |

Continued on next page

Table 39 – continued from previous page

|                                |         |    |  |       |  |
|--------------------------------|---------|----|--|-------|--|
| • includeEmailAddr             | Boolean | No |  | true  |  |
| • includePhoneNo               | Boolean | No |  | true  |  |
| • includeCompany               | Boolean | No |  | true  |  |
| • includeLocation              | Boolean | No |  | true  |  |
| • includeSmsProvider           | Boolean | No |  | true  |  |
| • includePersonBeingVisited    | Boolean | No |  | true  |  |
| • includeReasonForVisit        | Boolean | No |  | true  |  |
| • allowGuestSendSelfUsingPrint | Boolean | No |  | false |  |
| • allowGuestSendSelfUsingEmail | Boolean | No |  | false |  |
| • allowGuestSendSelfUsingSms   | Boolean | No |  | false |  |
| • includeAup                   | Boolean | No |  | false |  |
| • aupOnPage                    | Boolean | No |  | false |  |
| • requireAupAcceptance         | Boolean | No |  | false |  |

Continued on next page

Table 39 – continued from previous page

|   |         |    |  |            |  |
|---|---------|----|--|------------|--|
| • requireAupScrolling                   | Boolean | No |  | false      |  |
| • allowGuestLoginFromSelfregSuccessPage | Boolean | No |  | false      |  |
| • aupSettings                           | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| • displayFrequency                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| • includeAup                            | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| • requireAupScrolling                   | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| • useDiffAupForEmployees                | Boolean | No | Only valid if requireAupAcceptance = trueG   | false      |  |
| • skipAupForEmployees                   | Boolean | No | Only valid if requireAupAcceptance = true  | false      |  |
| • displayFrequencyIntervalDays          | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |

Continued on next page

Table 39 – continued from previous page

|                                      |         |    |  |       |  |
|--------------------------------------|---------|----|--|-------|--|
| •<br>GuestChangePasswordSettings     | List    | No |  |       |  |
| •<br>allowChangePasswdAtFirstLogin   | Boolean | No | Allow guest to change their own passwords                            | false |  |
| •<br>guestDeviceRegistrationSettings | List    | No |  |       |  |
| •<br>autoRegisterGuestDevices        | Boolean | No | Automatically register guest devices                                 | true  |  |
| •<br>allowGuestsToRegisterDevices    | Boolean | No | Allow guests to register devices                                     | false |  |
| •<br>byodSettings                    | List    | No | Configuration of BYOD Device Welcome, Registration and Success steps |       |  |
| •<br>byodWelcomeSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration            |       |  |
| •<br>enableBYOD                      | Boolean | No |  | true  |  |
| •<br>enableGuestAccess               | Boolean | No |  | false |  |
| •<br>requireMDM                      | Boolean | No |  | false |  |
| •<br>includeAup                      | Boolean | No |  | true  |  |

Continued on next page

Table 39 – continued from previous page

|                                      |         |    |  |                 |                                      |
|--------------------------------------|---------|----|--|-----------------|--------------------------------------|
| •<br>aupDisplay                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. | ONPAGE          |                                      |
| •<br>requireAupAcceptance            | Boolean | No |  | false           |                                      |
| •<br>requireScrolling                | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true  | false           |                                      |
| •<br>byodRegistrationSettings        | List    | No | Configuration of BYOD endpoint Registration step configuration                                 |                 |                                      |
| •<br>showDeviceID                    | Boolean | No | Display Device ID field during registration  | true            |                                      |
| •<br>endPointIdentityGroupId         | String  | No | Identity group id for which endpoint belongs   |                 | aa13bb40-8bff-11e6-996c-525400b48521 |
| •<br>byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration                         |                 |                                      |
| •<br>successRedirect                 | Enum    | No | After an Authentication Success where should device be redirected.                             | AUTHSUCCESSPAGE |                                      |
| •<br>redirectUrl                     | String  | No | Target URL for redirection, used when successRedirect = URL                                    |                 |                                      |

Continued on next page

Table 39 – continued from previous page

|                              |         |    |  |                 |               |
|------------------------------|---------|----|--|-----------------|---------------|
| •<br>authSuccessSettings     | List    | No |  |                 |               |
| •<br>successRedirect         | Enum    | No | After an Authentication Success where should device be redirected. | AUTHSUCCESSPAGE |               |
| •<br>redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL        |                 | www.cisco.com |
| •<br>postLoginBannerSettings | List    | No |  |                 |               |
| •<br>includePostAccessBanner | Boolean | No | Include a Post-Login Banner page                                   | false           |               |
| •<br>supportInfoSettings     | List    | No | Portal Support Information Settings                                |                 |               |
| •<br>includeSupportInfoPage  | Boolean | No |  | false           |               |
| •<br>includeMacAddr          | Boolean | No |  | false           |               |
| •<br>includeIpAddress        | Boolean | No |  | false           |               |
| •<br>includeBrowserUserAgent | Boolean | No |  | false           |               |
| •<br>includePolicyServer     | Boolean | No |  | false           |               |
| •<br>includeFailureCode      | Boolean | No |  | false           |               |

Continued on next page



Table 39 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • emptyFieldDisplay      | Enum   | No  | Specifies how empty fields are handled on the Support Information Page.                                       |  | HIDE                                     |
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when emptyFieldDisplay = DISPLAY-WITHDEFAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 39 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 39 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | Guest Portal                   |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page

Table 39 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_self\_registered\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a self registered portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_self\_registered\_portal\_by\_id*

**update\_self\_registered\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a self registered portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_self\_registered\_portal\_by\_id*

**delete\_self\_registered\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a self registered portal by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_self\_registered\_portal\_by\_id*

**`get_self_registered_portals`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*,  
*sortasc=None*, *sortdsc=None*, *headers=None*,  
*\*\*query\_parameters*)

This API allows the client to get all the self registered portals. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

## Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

## Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_self_registered_portals`

**`get_self_registered_portals_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the self registered portals. Filter: [name]  
 To search resources by using toDate column, follow the format: DD-MON-YY  
 (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
 /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

## Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- `TypeError` – If the parameter types are incorrect.
- `MalformedRequest` – If the request body created is invalid.
- `ApiError` – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_self_registered_portals_generator`

**create\_self\_registered\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a self registered portal.

**Parameters**

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDGUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.



- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_self\_registered\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the self registered portal.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## session\_directory

### class SessionDirectory

Identity Services Engine Session Directory API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine Session Directory API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_psg*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *C1sco12345*

**get\_sessions** (*headers=None*, *\*\*query\_parameters*)  
getSessions.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_sessions\_for\_recovery** (*headers=None*, *\*\*query\_parameters*)  
getSessionsForRecovery.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_by\_ip\_address** (*headers=None, \*\*query\_parameters*)  
`getSessionByIpAddress.`

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_session\_by\_mac\_address** (*headers=None, \*\*query\_parameters*)  
`getSessionByMacAddress.`

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_user_groups`** (*headers=None, \*\*query\_parameters*)  
`getUserGroups`.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_user_group_by_user_name`** (*headers=None, \*\*query\_parameters*)  
`getUserGroupByUserName`.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*headers=None, \*\*query\_parameters*)

Alias for *get\_user\_group\_by\_user\_name*

## sponsor\_group

### **class SponsorGroup**

Identity Services Engine SponsorGroup API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SponsorGroup API and exposes the API as native Python methods that return native Python objects.

Sponsor Group API allows the client to add, delete, update and search sponsor groups.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute | Type   | Required | Description                         | Default Values | Example Values                       |
|-----------|--------|----------|-------------------------------------|----------------|--------------------------------------|
| name      | String | Yes      | Resource Name                       |                | EmplALL_ACCOUNTS (default)oyees      |
| id        | String | No       | Resource UUID, mandatory for update |                | 9f1eca71-8c01-11e6-996c-525400b48521 |

Continued on next page

Table 40 – continued from previous page

|                             |         |    |                 |     |   |
|-----------------------------|---------|----|-----------------|-----|---|
| description                 | String  | No |                 |     | Sponsors assigned to this group can manage all guest user accounts. By default, users in the ALL_ACCOUNTS user identity group are members of this sponsor group |
| isEnabled                   | Boolean | No |                 |     | true  |
| isDefaultGroup              | Boolean | No |                 |     | true  |
| memberGroups                | List    | No |                 |     | ["ALL_ACCOUNTS (default)"]  |
| guestTypes                  | List    | No |                 |     | ["Contractor (default)", "Daily (default)", "Weekly (default)"]   |
| locations                   | List    | No |                 |     | ["San Jose"]  |
| autoNotification            | Boolean | No |                 |     | false   |
| managePermissions           | Enum    | No | Allowed values: |     | ALLACCOUNTS, GROUPACCOUNTS, OWNACCOUNTS   |
| createPermissions           | List    | No |                 |     |   |
| • canImportMultipleAccounts | Boolean | No |                 |     | true  |
| • importBatchSizeLimit      | Integer | No |                 | 200 |   |
| • canCreateRandomAccounts   | Boolean | No |                 |     | true  |
| • randomBatchSizeLimit      | Integer | No |                 | 200 |   |

Continued on next page

Table 40 – continued from previous page

|                             |         |     |  |  |       |
|-----------------------------|---------|-----|--|--|-------|
| • defaultUsernamePrefix     | String  | No  |  |  |       |
| • canSpecifyUsernamePrefix  | Boolean | No  |  |  | true  |
| • canSetFutureStartDate     | Boolean | No  |  |  | false |
| • startDateFutureLimitDays  | Integer | No  |  |  | 1     |
| otherPermissions            | List    | No  |  |  |       |
| • canUpdateGuestContactInfo | Boolean | No  |  |  | true  |
| • canViewGuestPasswords     | Boolean | No  |  |  | true  |
| • canSendSmsNotifications   | Boolean | No  |  |  | false |
| • canResetGuestPasswords    | Boolean | No  |  |  | true  |
| • canExtendGuestAccounts    | Boolean | No  |  |  | true  |
| • canDeleteGuestAccounts    | Boolean | No  |  |  | true  |
| • canSuspendGuestAccounts   | Boolean | Yes |  |  | true  |
| • requireSuspensionReason   | Boolean | No  |  |  | false |

Continued on next page

Table 40 – continued from previous page

|                                    |         |     |  |  |       |
|------------------------------------|---------|-----|--|--|-------|
| •<br>canReinstateSuspendedAccounts | Boolean | No  |  |  | true  |
| •<br>canApproveSelfregGuests       | Boolean | No  |  |  | true  |
| •<br>limitApprovalToSponsorsGuests | Boolean | Yes |  |  | false |
| •<br>canAccessViaRest              | Boolean | No  |  |  | false |

**get\_sponsor\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsor group by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsor\_group\_by\_id*

**update\_sponsor\_group\_by\_id** (*id*, *auto\_notification=None*, *create\_permissions=None*, *description=None*, *guest\_types=None*, *is\_default\_group=None*, *is\_enabled=None*, *locations=None*, *manage\_permission=None*, *member\_groups=None*, *name=None*, *other\_permissions=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)



This API allows the client to update a sponsor group by ID.

#### Parameters

- **auto\_notification** (*boolean*) – autoNotification, property of the request body.
- **create\_permissions** (*object*) – createPermissions, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_types** (*list*) – guestTypes, property of the request body (list of strings).
- **id** (*basestring*) – id, property of the request body.
- **is\_default\_group** (*boolean*) – isDefaultGroup, property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **locations** (*list*) – locations, property of the request body (list of strings).
- **manage\_permission** (*string*) – managePermission, property of the request body.
- **member\_groups** (*list*) – memberGroups, property of the request body (list of strings).
- **name** (*string*) – name, property of the request body.
- **other\_permissions** (*object*) – otherPermissions, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id(id, auto_notification=None, create_permissions=None, description=None,
             guest_types=None, is_default_group=None, is_enabled=None, locations=None,
             manage_permission=None, member_groups=None, name=None, other_permissions=None,
             headers=None, payload=None, active_validation=True,
             **query_parameters)
```

Alias for *update\_sponsor\_group\_by\_id*

**delete\_sponsor\_group\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a sponsor group by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sponsor\_group\_by\_id*

**get\_sponsor\_group** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsor groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sponsor\_group*

**get\_sponsor\_group\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor groups. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sponsor\_group\_generator*

**create\_sponsor\_group** (*auto\_notification=None, create\_permissions=None, description=None, guest\_types=None, is\_default\_group=None, is\_enabled=None, locations=None, manage\_permission=None, member\_groups=None, name=None, other\_permissions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsor group.

### Parameters

- **auto\_notification** (*boolean*) – autoNotification, property of the request body.
- **create\_permissions** (*object*) – createPermissions, property of the request body.
- **description** (*string*) – description, property of the request body.
- **guest\_types** (*list*) – guestTypes, property of the request body (list of strings).
- **is\_default\_group** (*boolean*) – isDefaultGroup, property of the request body.
- **is\_enabled** (*boolean*) – isEnabled, property of the request body.
- **locations** (*list*) – locations, property of the request body (list of strings).
- **manage\_permission** (*string*) – managePermission, property of the request body.
- **member\_groups** (*list*) – memberGroups, property of the request body (list of strings).
- **name** (*string*) – name, property of the request body.

- **other\_permissions** (*object*) – otherPermissions, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*auto\_notification=None, create\_permissions=None, description=None, guest\_types=None, is\_default\_group=None, is\_enabled=None, locations=None, manage\_permission=None, member\_groups=None, name=None, other\_permissions=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sponsor\_group*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor group.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- *MalformedRequest* – If the request body created is invalid.
- *ApiError* – If the Identity Services Engine cloud returns an error.

## sponsor\_group\_member

### class SponsorGroupMember

Identity Services Engine SponsorGroupMember API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SponsorGroupMember API and exposes the API as native Python methods that return native Python objects.

Sponsor Group API allows the client to search the group members from different identity stores configured in the GUI.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description         | Example Values                       |
|-------------|--------|----------|---------------------|--------------------------------------|
| name        | String | Yes      | Resource Name       | ALL_ACCOUNTS (default)               |
| id          | String | No       | Resource UUID value | a176c430-8c01-11e6-996c-525400b48521 |
| description | String | No       |                     |                                      |
| dicType     | String | Yes      |                     |                                      |
| guid        | String | Yes      |                     |                                      |

**get\_sponsor\_group\_member** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor group members. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_group\_member*

**get\_sponsor\_group\_member\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor group members. Filter: [name]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_group\_member\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor group member.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request’s response
- text(str): representation of the request’s response



**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## sponsor\_portal

### class SponsorPortal

Identity Services Engine SponsorPortal API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SponsorPortal API and exposes the API as native Python methods that return native Python objects.

Sponsor Portal API provides the ability to create, read, update, delete and search sponsor portals.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute   | Type   | Required | Description                         | Default Values | Example Values   |
|-------------|--------|----------|-------------------------------------|----------------|--|
| name        | String | Yes      | Resource Name                       |                | Sponsor Portal (default)   |
| id          | String | No       | Resource UUID, mandatory for update |                | 04cd708b-feef-4c75-bf3e-2d2a9c302da2   |
| description | String | No       |                                     |                | Default portal used by sponsors to create and manage accounts for authorized visitors to securely access the network |

Continued on next page

Table 41 – continued from previous page

|                       |         |     |   |         |   |
|-----------------------|---------|-----|---|---------|---|
| portalTestUrl         | String  | No  | URL to bring up a test page for this portal   |         | <a href="https://{ise-ip}:8445/portal/PortalSetup.action?portalId=feef-4c75-bf3e-2d2a9c302da2">https://{ise-ip}:8445/portal/PortalSetup.action?portalId=feef-4c75-bf3e-2d2a9c302da2</a> |
| portalType            | Enum    | Yes | Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELF-REGGUEST, SPONSOR, SPONSORED, GUEST                            | SPONSOR |   |
| settings              | List    | No  | Defines all of the settings groups available for a portal   |         |   |
| • portalSettings      | List    | No  | The port, interface, certificate, and other basic settings of a portal  |         |   |
| • httpsPort           | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                               |         | 8445  |
| • allowedInterfaces   | Enum    | Yes | Interfaces that the portal will be reachable on.  |         | [ “eth0”, “bond0” ]   |
| • certificateGroupTag | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal                                     |         | Default Portal Certificate Group  |
| • fqdn                | String  | No  | The fully-qualified domain name (FQDN) that end-users will use to access this portal. Used only in Sponsor portal |         | Default Portal Certificate Group  |

Continued on next page

Table 41 – continued from previous page

|                                    |         |     |  |       |                                      |
|------------------------------------|---------|-----|--|-------|--------------------------------------|
| • authenticationMethod             | String  | Yes | Unique Id of the identity source sequence                                    |       | 92faba60-8c01-11e6-996c-525400b48521 |
| • idleTimeout                      | Integer | No  |  | 10    |                                      |
| • displayLang                      | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE                                |       | USEBROWSERLOCALE                     |
| • fallbackLanguage                 | String  | No  | Used when displayLang = USE-BROWSER-LOCALE                                   |       | English                              |
| • alwaysUsedLanguage               | String  | No  | Used when displayLang = ALWAYSUSE  |       | English                              |
| • availableSsids                   | List    | No  | Names of the SSIDs available for assignment to guest users by sponsors       |       |                                      |
| • loginPageSettings                | List    | No  | Portal Login Page settings groups follow                                     |       |                                      |
| • maxFailedAttemptsBeforeRateLimit | Integer | No  | Maximum failed login attempts before rate limiting                           | 5     |                                      |
| • timeBetweenLoginsDuringRateLimit | Integer | No  | Time between login attempts when rate limiting                               | 2     |                                      |
| • includeAup                       | Boolean | No  | Include an Acceptable Use Policy (AUP) that should be displayed during login | false |                                      |

Continued on next page

Table 41 – continued from previous page

|                                    |         |    |  |            |  |
|------------------------------------|---------|----|--|------------|--|
| •<br>aupDisplay                    | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | ASLINK     |  |
| •<br>requireAupAcceptance          | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true                         | false      |  |
| •<br>aupSettings                   | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal                                      |            |  |
| •<br>displayFrequency              | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.     | FIRSTLOGIN |  |
| •<br>includeAup                    | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| •<br>requireAupScrolling           | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true | false      |  |
| •<br>displayFrequencyIntervalDays  | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring)                       | 7          |  |
| •<br>sponsorChangePasswordSettings | List    | No |  |            |  |

Continued on next page

Table 41 – continued from previous page

|                           |         |    |   |       |      |
|---------------------------|---------|----|---|-------|------|
| • allowSponsorToChangePwd | Boolean | No | Allow sponsors to change their own passwords                            | false |      |
| • postLoginBannerSettings | List    | No |   |       |      |
| • includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false |      |
| • supportInfoSettings     | List    | No | Portal Support Information Settings                                     |       |      |
| • includeSupportInfoPage  | Boolean | No |   | false |      |
| • includeMacAddr          | Boolean | No |   | false |      |
| • includeIpAddress        | Boolean | No |   | false |      |
| • includeBrowserUserAgent | Boolean | No |   | false |      |
| • includePolicyServer     | Boolean | No |   | false |      |
| • includeFailureCode      | Boolean | No |   | false |      |
| • emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. |       | HIDE |

Continued on next page

Table 41 – continued from previous page

|                          |        |     |   |  |  |
|--------------------------|--------|-----|---|--|--|
| • defaultEmptyFieldValue | String | No  | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDE-FAULT-VALUE |  |  |
| customizations           | List   | No  | Defines all of the Portal Customizations available  |  |  |
| • portalTheme            | List   | No  | Defines the configuration for portal theme  |  |  |
| • id                     | String | No  | The unique internal identifier of the portal theme  |  | 9eb421c0-8c01-11e6-996c-525400b48521     |
| • name                   | String | Yes | The system- or user-assigned name of the portal theme   |  | Default Blue theme                       |
| • themeData              | String | No  | A CSS file, represented as a Base64-encoded byte array  |  | Base 64 encoded string of Theme CSS file |

Continued on next page

Table 41 – continued from previous page

|                         |        |    |   |  |                                 |
|-------------------------|--------|----|---|--|---------------------------------|
| • portalTweakSettings   | List   | No | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |                                 |
| • bannerColor           | String | No | Hex value of color  |  | #0000FF                         |
| • bannerTextColor       | String | No |   |  | Banner Text color code from GUI |
| • pageBackgroundColor   | String | No |   |  | Color code from GUI             |
| • pageLabelAndTextColor | String | No |   |  | Label and Text color from GUI   |
| • language              | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported   |  |                                 |
| • viewLanguage          | String | No |   |  | English                         |

Continued on next page

Table 41 – continued from previous page

|                        |        |    |   |  |                                |
|------------------------|--------|----|---|--|--------------------------------|
| • globalCustomizations | List   | No | Represent the portal Global customizations                    |  |                                |
| • bannerTitle          | String | No |   |  | Guest Portal                   |
| • contactText          | String | No |   |  | Contact Support                |
| • footerElement        | String | No |   |  | Footer Element                 |
| • mobileLogoImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • desktopLogoImage     | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • bannerImage          | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |
| • backgroundImage      | Image  | No |   |  |                                |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array |  | base 64 encoded value of image |

Continued on next page



Table 41 – continued from previous page

|                      |        |     |   |  |                             |
|----------------------|--------|-----|---|--|-----------------------------|
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |  |                             |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |  |                             |
| • key                | String | Yes |   |  | ui_contact_ip_address_label |
| • value              | String | Yes |   |  | SVAgYWRkcmVzczo=            |

**get\_sponsor\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsor portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsor\_portal\_by\_id*

**update\_sponsor\_portal\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a sponsor portal by ID.

#### Parameters

- **customizations** (*object*) – customizations, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_sponsor\_portal\_by\_id*

**delete\_sponsor\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes a sponsor portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_sponsor_portal_by_id`*

**`get_sponsor_portal`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsor portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsor\_portal*

**`get_sponsor_portal_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsor portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for `get_sponsor_portal_generator`

**`create_sponsor_portal`** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsor portal.

**Parameters**

- **`customizations`** (*object*) – customizations, property of the request body.
- **`description`** (*string*) – description, property of the request body.
- **`name`** (*string*) – name, property of the request body.
- **`portal_test_url`** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **`portal_type`** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **`settings`** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`payload`** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **`active_validation`** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sponsor\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsor portal.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## sponsored\_guest\_portal

### **class** SponsoredGuestPortal

Identity Services Engine SponsoredGuestPortal API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SponsoredGuestPortal API and exposes the API as native Python methods that return native Python objects.

Sponsored Guest Portal API provides the ability to create, read, update, delete and search sponsored guest portals.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.2               | Initial Cisco ISE Version |

### Resource Definition

| Attribute     | Type   | Required | Description  | Default Values  | Example Values |
|---------------|--------|----------|--|---|----------------|
| name          | String | Yes      | Resource Name  | Sponsored Guest Portal (default)  |                |
| id            | String | No       | Resource UUID, mandatory for update  | d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33  |                |
| description   | String | No       | Sponsors create guest accounts, and guests access the network using their assigned username and password |   |                |
| portalTestUrl | String | No       | URL to bring up a test page for this portal  | <a href="https://{ise-ip}:8443/portal/PortalSetup.action?portal=d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33">https://{ise-ip}:8443/portal/PortalSetup.action?portal=d135de9f-cd87-4ce7-b1a4-1d9c7cf35f33</a> |                |
| portalType    | Enum   | Yes      | Allowed values: BYOD, HOTSPOTGUEST, MYDE-VICE, SELF-REGGUEST, SPONSOR, SPONSOREDGGUEST                   | SPONSOREDGGUEST   |                |
| settings      | List   | No       | Defines all of the settings groups available for a portal  |   |                |

Continued on next page

Table 42 – continued from previous page

|                                |         |     |  |                                      |  |
|--------------------------------|---------|-----|--|--------------------------------------|--|
| • portalSettings               | List    | No  | The port, interface, certificate, and other basic settings of a portal   |                                      |  |
| • httpsPort                    | Integer | Yes | The port number that the allowed interfaces will listen on. Range from 8000 to 8999                                      | 8443                                 |  |
| • allowedInterfaces            | Enum    | Yes | Interfaces that the portal will be reachable on. Allowed values: eth0, eth1, eth2, eth3, eth4, eth5, bond0, bond1, bond2 | [ “eth0”, “bond0” ]                  |  |
| • certificateGroupTag          | String  | Yes | Logical name of the x.509 server certificate that will be used for the portal  | Default Portal Certificate Group     |  |
| • authenticationMethod         | String  | Yes | Unique Id of the identity source sequence  | 92faba60-8c01-11e6-996c-525400b48521 |  |
| • assignedGuestTypeForEmployee | String  | Yes | Unique Id of a guest type. Employees using this portal as a guest inherit login options from the guest type              | Contractor (default)                 |  |
| • displayLang                  | Enum    | No  | Allowed values: USE-BROWSER-LOCALE, ALWAYSUSE  | USEBROWSERLOCALE                     |  |
| • fallbackLanguage             | String  | No  | Used when displayLang = USE-BROWSER-LOCALE   | English                              |  |

Continued on next page



Table 42 – continued from previous page

|                                       |         |    |   |         |  |
|---------------------------------------|---------|----|---|---------|--|
| •<br>alwaysUsedLanguage               | String  | No | Used when displayLang = ALWAYSUSE   | English |  |
| •<br>loginPageSettings                | List    | No | Portal Login Page settings groups follow  |         |  |
| •<br>maxFailedAttemptsBeforeRateLimit | Integer | No | Maximum failed login attempts before rate limiting  | 5       |  |
| •<br>timeBetweenLoginsDuringRateLimit | Integer | No | Time between login attempts when rate limiting  | 2       |  |
| •<br>includeAup                       | Boolean | No | Include an Acceptable Use Policy (AUP) that should be displayed during login  | false   |  |
| •<br>aupDisplay                       | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ASLINK  |  |
| •<br>requireAupAcceptance             | Boolean | No | Require the portal user to accept the AUP. Only valid if includeAup = true  | false   |  |
| •<br>requireAccessCode                | Boolean | No | Require the portal user to enter an access code   | false   |  |
| •<br>accessCode                       | String  | No | Access code that must be entered by the portal user (only valid if requireAccessCode = true)                                  |         |  |

Continued on next page

Table 42 – continued from previous page

|                              |         |    |  |            |  |
|------------------------------|---------|----|--|------------|--|
| • allowGuestToCreateAccounts | Boolean | No | false  |            |  |
| • allowGuestToChangePassword | Boolean | No | Require the portal user to enter an access code  | false      |  |
| • aupSettings                | List    | No | Configuration of the Acceptable Use Policy (AUP) for a portal  |            |  |
| • displayFrequency           | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed Values: FIRSTLOGIN, EVERYLOGIN, RECURRING | FIRSTLOGIN |  |
| • includeAup                 | Boolean | No | Require the portal user to read and accept an AUP  | true       |  |
| • requireAupScrolling        | Boolean | No | Require the portal user to scroll to the end of the AUP. Only valid if requireAupAcceptance = true   | false      |  |
| • useDiffAupForEmployees     | Boolean | No | Only valid if requireAupAcceptance = trueG   | false      |  |
| • skipAupForEmployees        | Boolean | No | Only valid if requireAupAcceptance = true  | false      |  |

Continued on next page

Table 42 – continued from previous page

|                                   |         |    |  |       |  |
|-----------------------------------|---------|----|--|-------|--|
| • displayFrequencyIntervalDays    | Integer | No | Number of days between AUP confirmations (when displayFrequency = recurring) | 7     |  |
| • GuestChangePasswordSettings     | List    | No |  |       |  |
| • allowChangePasswdAtFirstLogin   | Boolean | No | Allow guest to change their own passwords                                    | false |  |
| • guestDeviceRegistrationSettings | List    | No |  |       |  |
| • autoRegisterGuestDevices        | Boolean | No | Automatically register guest devices   | true  |  |
| • allowGuestsToRegisterDevices    | Boolean | No | Allow guests to register devices   | false |  |
| • byodSettings                    | List    | No | Configuration of BYOD Device Welcome, Registration and Success steps         |       |  |
| • byodWelcomeSettings             | List    | No | Configuration of BYOD endpoint welcome step configuration                    |       |  |
| • enableBYOD                      | Boolean | No | true   |       |  |
| • enableGuestAccess               | Boolean | No | false  |       |  |
| • requireMDM                      | Boolean | No | false  |       |  |

Continued on next page

Table 42 – continued from previous page

|                                   |         |    |   |                                      |  |
|-----------------------------------|---------|----|---|--------------------------------------|--|
| • includeAup                      | Boolean | No | true  |                                      |  |
| • aupDisplay                      | Enum    | No | How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true. Allowed values: ONPAGE, ASLINK | ONPAGE                               |  |
| • requireAupAcceptance            | Boolean | No | false   |                                      |  |
| • requireScrolling                | Boolean | No | Require BYOD devices to scroll down to the bottom of the AUP, Only valid if includeAup = true                                 | false                                |  |
| • byodRegistrationSettings        | List    | No | Configuration of BYOD endpoint Registration step configuration  |                                      |  |
| • showDeviceID                    | Boolean | No | Display Device ID field during registration   | true                                 |  |
| • endPointIdentityGroupId         | String  | No | Identity group id for which endpoint belongs  | aa13bb40-8bff-11e6-996c-525400b48521 |  |
| • byodRegistrationSuccessSettings | List    | No | Configuration of BYOD endpoint Registration Success step configuration  |                                      |  |

Continued on next page

Table 42 – continued from previous page

|                           |         |    |   |                 |  |
|---------------------------|---------|----|---|-----------------|--|
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   |                 |  |
| • authSuccessSettings     | List    | No |   |                 |  |
| • successRedirect         | Enum    | No | After an Authentication Success where device should be redirected. Allowed values: AUTHSUCCESSPAGE, ORIGINATINGURL, URL | AUTHSUCCESSPAGE |  |
| • redirectUrl             | String  | No | Target URL for redirection, used when successRedirect = URL   | www.cisco.com   |  |
| • postLoginBannerSettings | List    | No |   |                 |  |
| • includePostAccessBanner | Boolean | No | Include a Post-Login Banner page  | false           |  |
| • supportInfoSettings     | List    | No | Portal Support Information Settings   |                 |  |
| • includeSupportInfoPage  | Boolean | No | false   |                 |  |

Continued on next page

Table 42 – continued from previous page

|                           |         |    |   |      |  |
|---------------------------|---------|----|---|------|--|
| • includeMacAddr          | Boolean | No | false   |      |  |
| • includeIpAddress        | Boolean | No | false   |      |  |
| • includeBrowserUserAgent | Boolean | No | false   |      |  |
| • includePolicyServer     | Boolean | No | false   |      |  |
| • includeFailureCode      | Boolean | No | false   |      |  |
| • emptyFieldDisplay       | Enum    | No | Specifies how empty fields are handled on the Support Information Page. Allowed values: HIDE, DISPLAY-WITHNO-VALUE, DISPLAYWITH-DEFAULT-VALUE | HIDE |  |
| • defaultEmptyFieldValue  | String  | No | The default value displayed for an empty field. Only valid when empty-FieldDisplay = DISPLAY-WITHDEFAULT-VALUE                                |      |  |
| customizations            | List    | No | Defines all of the Portal Customizations available  |      |  |
| • portalTheme             | List    | No | Defines the configuration for portal theme  |      |  |

Continued on next page

Table 42 – continued from previous page

|                         |        |     |   |  |  |
|-------------------------|--------|-----|---|--|--|
| • id                    | String | No  | The unique internal identifier of the portal theme  | 9eb421c0-8c01-11e6-996c-525400b48521     |  |
| • name                  | String | Yes | The system- or user-assigned name of the portal theme   | Default Blue theme                       |  |
| • themeData             | String | No  | A CSS file, represented as a Base64-encoded byte array  | Base 64 encoded string of Theme CSS file |  |
| • portalTweakSettings   | List   | No  | The Tweak Settings are a customization of the Portal Theme that has been selected for the portal. When the Portal Theme selection is changed, the Tweak Settings are overwritten to match the values in the theme. The Tweak Settings can subsequently be changed by the user |  |  |
| • bannerColor           | String | No  | Hex value of color  | #0000FF                                  |  |
| • bannerTextColor       | String | No  | Banner Text color code from GUI   |  |  |
| • pageBackgroundColor   | String | No  | Color code from GUI   |  |  |
| • pageLabelAndTextColor | String | No  | Label and Text color from GUI   |  |  |

Continued on next page

Table 42 – continued from previous page

|                        |        |    |   |                                |  |
|------------------------|--------|----|---|--------------------------------|--|
| • language             | List   | No | This property is supported only for Read operation and it allows to show the customizations in English. Other languages are not supported |                                |  |
| • viewLanguage         | String | No | English   |                                |  |
| • globalCustomizations | List   | No | Represent the portal Global customizations  |                                |  |
| • bannerTitle          | String | No | Guest Portal  |                                |  |
| • contactText          | String | No | Contact Support   |                                |  |
| • footerElement        | String | No | Footer Element  |                                |  |
| • mobileLogoImage      | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array   | base 64 encoded value of image |  |
| • desktopLogoImage     | Image  | No |   |                                |  |
| • data                 | String | No | Represented as base 64 encoded string of the image byte array   | base 64 encoded value of image |  |
| • bannerImage          | Image  | No |   |                                |  |

Continued on next page



Table 42 – continued from previous page

|                      |        |     |   |                                |  |
|----------------------|--------|-----|---|--------------------------------|--|
| • data               | String | No  | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • backgroundImage    | Image  | No  |   |                                |  |
| • data               | String | No  | Represented as base 64 encoded string of the image byte array | base 64 encoded value of image |  |
| • pageCustomizations | List   | No  | Represent the entire page customization as a giant dictionary |                                |  |
| • data               | List   | No  | The Dictionary will be exposed here as key value pair         |                                |  |
| • key                | String | Yes | ui_contact_ip_address_label                                   |                                |  |
| • value              | String | Yes | SVAgYWRkcmVzczo=  |                                |  |

**get\_sponsored\_guest\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a sponsored guest portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_sponsored\_guest\_portal\_by\_id*

**update\_sponsored\_guest\_portal\_by\_id** (*id*, *customizations=None*, *description=None*,  
*name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*,  
*payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

This API allows the client to update a sponsored guest portal by ID.

#### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDQUEST, property of the request body.
- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *customizations=None*, *description=None*, *name=None*, *portal\_test\_url=None*, *portal\_type=None*, *settings=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_sponsored\_guest\_portal\_by\_id*

**delete\_sponsored\_guest\_portal\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a sponsored guest portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_sponsored\_guest\_portal\_by\_id*

**get\_sponsored\_guest\_portals** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the sponsored guest portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sponsored\_guest\_portals*

**get\_sponsored\_guest\_portals\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the sponsored guest portals. Filter: [name, description] To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can

be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_sponsored\_guest\_portals\_generator*

**create\_sponsored\_guest\_portal** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a sponsored guest portal.

### Parameters

- **customizations** (*object*) – Defines all of the Portal Customizations available, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_test\_url** (*string*) – URL to bring up a test page for this portal, property of the request body.
- **portal\_type** (*string*) – Allowed values: BYOD, HOTSPOTGUEST, MYDEVICE, SELFREGGUEST, SPONSOR, SPONSOREDGUEST, property of the request body.

- **settings** (*object*) – Defines all of the settings groups available for a portal, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*customizations=None, description=None, name=None, portal\_test\_url=None, portal\_type=None, settings=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_sponsored\_guest\_portal*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the sponsored guest portal.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## support\_bundle\_download

### class SupportBundleDownload

Identity Services Engine SupportBundleDownload API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SupportBundleDownload API and exposes the API as native Python methods that return native Python objects.

Support Bundle Download API allows client to download support bundles provided those are generated and available in the default location.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute   | Type   | Required | Description  | Example Values |
|-------------|--------|----------|--|----------------|
| name        | String | Yes      | Resource Name  |                |
| id          | String | No       | Resource UUID, mandatory for update                              |                |
| description | String | No       |  |                |
| fileName    | String | Yes      | File name along with path from where file needs to be downloaded | filename       |

**download\_support\_bundle** (*file\_name=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to upload a support bundle.

#### Parameters

- **file\_name** (*string*) – fileName, property of the request body.
- **dirpath** (*basestring*) – Directory absolute path. Defaults to os.getcwd().
- **save\_file** (*bool*) – Enable or disable automatic file creation of raw response.
- **filename** (*basestring*) – The filename used to save the download file.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

The DownloadResponse wrapper. Wraps the urllib3.response.HTTPResponse. For more information check the [urllib3 documentation](#)

**Return type** *DownloadResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.
- **DownloadFailure** – If was not able to download the raw
- **response to a file.** –

**download** (*file\_name=None, dirpath=None, save\_file=None, filename=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *download\_support\_bundle*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the support bundle download.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.



## support\_bundle\_status

### class SupportBundleStatus

Identity Services Engine SupportBundleStatus API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SupportBundleStatus API and exposes the API as native Python methods that return native Python objects.

Support Bundle Status API allows clients to query status of a triggered support bundle.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| At-tribute   | Type    | Re-quired | Description                         | Example Values  |
|--------------|---------|-----------|-------------------------------------|---|
| name         | String  | Yes       | Resource Name                       | ciscoise  |
| id           | String  | No        | Resource UUID, mandatory for update | ciscoise  |
| descrip-tion | String  | No        |                                     | Support Bundle Status api                                     |
| file-Name    | String  | No        |                                     | ise-support-bundle-pk-ciscoise-admin-04-09-2021-15-07.tar.gpg |
| fileSize     | Integer | No        |                                     | 1080924274  |
| host-Name    | String  | No        |                                     | ciscoise  |
| mes-sage     | String  | No        |                                     | Support Bundle generation completed                           |
| start-Time   | String  | No        |                                     | Fri Apr 09 15:07:55 IST 2021                                  |
| status       | String  | No        |                                     | complete  |

**get\_support\_bundle\_status\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a support bundle status by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_support_bundle_status_by_id`*

**`get_support_bundle_status`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the support bundle status.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_support_bundle_status`*

**`get_support_bundle_status_generator`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the support bundle status.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_support\_bundle\_status\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)  
This API helps to retrieve the version information related to the support bundle status.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- *ApiError* – If the Identity Services Engine cloud returns an error.

## support\_bundle\_trigger\_configuration

### **class SupportBundleTriggerConfiguration**

Identity Services Engine SupportBundleTriggerConfiguration API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SupportBundleTriggerConfiguration API and exposes the API as native Python methods that return native Python objects.

Support Bundle Trigger API allows clients to trigger support bundle provided the log settings are given using which the support needs to be generated.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 2.7               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute            | Type    | Required | Description  | Default Values                       |
|----------------------|---------|----------|--|--------------------------------------|
| name                 | String  | Yes      | Resource Name  | supportBundle                        |
| id                   | String  | No       | Resource UUID, mandatory for update                                  | 1af3d6e2-cc3b-4603-b80f-6827768335ab |
| description          | String  | No       | Support Bundle Generation  |                                      |
| hostName             | String  | Yes      | This parameter is hostName only, xxxx of xxxx.yyy.zz                 | sampleHost                           |
| supportBundleOptions | List    | Yes      |  |                                      |
| • includeConfigDB    | Boolean | Yes      | Set to include Config DB in Support Bundle                           | false                                |
| • includeDebugLogs   | Boolean | Yes      | Set to include Debug logs in Support Bundle                          | false                                |
| • includeLocalLogs   | Boolean | Yes      | Set to include Local logs in Support Bundle                          | false                                |
| • includeCoreFiles   | Boolean | Yes      | Set to include Core files in Support Bundle                          | false                                |
| • includeSystemLogs  | Boolean | Yes      | Set to include System logs in Support Bundle                         | false                                |
| • mntLogs            | Boolean | Yes      | Set to include Monitoring and troubleshooting logs in Support Bundle | false                                |
| • policyXml          | Boolean | Yes      | Set to include Policy XML in Support Bundle                          | false                                |
| • fromDate           | Date    | No       | Date from where support bundle should include the logs               | 04/21/2019                           |
| • toDate             | Date    | No       | Date upto where support bundle should include the logs               | 04/22/2019                           |

**create\_support\_bundle** (*description=None, host\_name=None, name=None, support\_bundle\_include\_options=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a support bundle trigger configuration.

### Parameters

- **description** (*string*) – description, property of the request body.
- **host\_name** (*string*) – This parameter is hostName only, xxxx of xxxx.yyy.zz, property of the request body.
- **name** (*string*) – Resource Name, property of the request body.
- **support\_bundle\_include\_options** (*object*) – supportBundleIncludeOptions, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, host\_name=None, name=None, support\_bundle\_include\_options=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_support\_bundle*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the support bundle trigger configuration.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## system\_health

### class SystemHealth

Identity Services Engine System Health API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine System Health API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](https://developer.cisco.com/site/license/cisco-sample-code-license/)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pxs*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_healths** (*headers=None*, *\*\*query\_parameters*)  
getHealths.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_performances** (*headers=None, \*\*query\_parameters*)  
getPerformances.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## system\_certificate

### class SystemCertificate

Identity Services Engine SystemCertificate API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine SystemCertificate API and exposes the API as native Python methods that return native Python objects.

System Certificate API provides the ability to create certificates like SAML, pxGrid.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |  |  |

#### Resource Definition



| Attribute   | Type    | Required | Description                         | Example Values                   |
|---|---------|----------|-------------------------------------|----------------------------------|
| name  | String  | Yes      | Resource Name                       |                                  |
| id  | String  | No       | Resource UUID, mandatory for update |                                  |
| description   | String  | No       |                                     | Support Bundle Status api        |
| nodeId  | String  | Yes      | NodeId of Cisco ISE application     | ISE-01                           |
| localCertStub   | List    | Yes      | Inputs for certificate creation     |                                  |
| <ul style="list-style-type: none"> <li>subjectStub</li> </ul>               | List    | No       | Subject data of certificate         |                                  |
| <ul style="list-style-type: none"> <li>commonName</li> </ul>                | String  | No       | Common Name                         | \$FQDN\$                         |
| <ul style="list-style-type: none"> <li>organizationalUnitName</li> </ul>    | String  | No       | Organizational Unit Name            | Cisco-SAMLCert                   |
| <ul style="list-style-type: none"> <li>organizationName</li> </ul>          | String  | No       | Organizational Name                 | Cisco                            |
| <ul style="list-style-type: none"> <li>localityName</li> </ul>              | String  | No       | Locality Name                       | City                             |
| <ul style="list-style-type: none"> <li>stateOrProvinceName</li> </ul>       | String  | No       | State or Province Name              | State                            |
| <ul style="list-style-type: none"> <li>countryName</li> </ul>               | String  | No       | Country Name                        | Country                          |
| <ul style="list-style-type: none"> <li>keyType</li> </ul>                   | String  | Yes      | Key Type                            | RSA OR ECDSA                     |
| <ul style="list-style-type: none"> <li>keyLength</li> </ul>                 | String  | Yes      | Key Length                          | 512 OR 1024 OR 2048 OR 4096      |
| <ul style="list-style-type: none"> <li>digest</li> </ul>                    | String  | Yes      | Digest                              | SHA-256 OR SHA-384 OR SHA-512    |
| <ul style="list-style-type: none"> <li>expirationTTL</li> </ul>             | Integer | Yes      | Expiration Time to Live (TTL)       | 2                                |
| <ul style="list-style-type: none"> <li>selectedExpirationTTLUnit</li> </ul> | String  | Yes      | Selected Expiration TTL Unit        | days OR weeks OR months OR years |
| <ul style="list-style-type: none"> <li>groupTagDD</li> </ul>                | String  | No       | Group Tag DD                        | add-group-tag                    |
| <ul style="list-style-type: none"> <li>samlCertificate</li> </ul>           | String  | No       | SAML Certificate                    | on OR off                        |

**create\_system\_certificate** (*ers\_local\_cert\_stub=None, node\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to create a system certificate.

#### Parameters

- **ers\_local\_cert\_stub** (*object*) – Inputs for certificate creation, property of the request body.
- **node\_id** (*string*) – NodeId of Cisco ISE application, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*ers\_local\_cert\_stub=None, node\_id=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_system\_certificate*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the system certificate.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## **tacacs\_command\_sets**

### **class TacacsCommandSets**

Identity Services Engine TACACSCCommandSets API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine TACACSCCommandSets API and exposes the API as native Python methods that return native Python objects.

TACACS Command Sets API allows the client to add, delete, update, search and perform actions on TACACS command sets.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute       | Type    | Required | Description  | Default Values | Example Values  |
|-----------------|---------|----------|--|----------------|---|
| name            | String  | Yes      | Resource Name  |                | DenyAllCommands   |
| id              | String  | No       | Resource UUID, mandatory for update  |                | 0cef7990-6120-11ea-bffb-7a82c56e81f0                                    |
| description     | String  | No       |  |                | Default Command Set   |
| permitUnmatched | Boolean | No       |  | false          |   |
| commands        | List    | No       | Holds list of Commands   |                |   |
| • commandList   | List    | No       | Array of dictionaries describing various attributes with the properties: <ul style="list-style-type: none"> <li>- grant (Enum. Allowed values: PERMIT, DENY, DENY_ALWAYS),</li> <li>- command (String),</li> <li>- arguments (String)</li> </ul> |                | [ { "grant" : "PERMIT", "command" : "create", "arguments" : "value" } ] |

**get\_tacacs\_command\_sets\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS command sets by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_by\_name*

**get\_tacacs\_command\_sets\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS command sets by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_by\_id*

**update\_tacacs\_command\_sets\_by\_id** (*id*, *commands=None*, *description=None*, *name=None*, *permit\_unmatched=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update TACACS command sets.

#### Parameters

- **commands** (*object*) – commands, property of the request body.
- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **permit\_unmatched** (*boolean*) – permitUnmatched, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.

- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *commands=None*, *description=None*, *name=None*, *permit\_unmatched=None*,  
*headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_tacacs\_command\_sets\_by\_id*

**delete\_tacacs\_command\_sets\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes TACACS command sets.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_tacacs\_command\_sets\_by\_id*

**get\_tacacs\_command\_sets** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS command sets.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets*

**get\_tacacs\_command\_sets\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS command sets.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_command\_sets\_generator*

**create\_tacacs\_command\_sets** (*commands=None, description=None, name=None, permit\_unmatched=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates TACACS command sets.

**Parameters**

- **commands** (*object*) – commands, property of the request body.
- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **permit\_unmatched** (*boolean*) – permitUnmatched, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*commands=None, description=None, name=None, permit\_unmatched=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_tacacs\_command\_sets*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS command sets.

**Parameters**



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## tacacs\_external\_servers

### class TacacsExternalServers

Identity Services Engine TACACSExternalServers API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine TACACSExternalServers API and exposes the API as native Python methods that return native Python objects.

TACACS External Servers API allows the client to add, delete, update, search and perform actions on TACACS external servers.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### Resource Definition

| Attribute      | Type    | Re-<br>quired | Description                         | Default<br>Values | Example Values                       |
|----------------|---------|---------------|-------------------------------------|-------------------|--------------------------------------|
| name           | String  | Yes           | Resource Name                       |                   | TacacsExternalServer1                |
| id             | String  | No            | Resource UUID, mandatory for update |                   | 1af3d6e2-cc3b-4603-b80f-6827768335ab |
| description    | String  | No            |                                     |                   | TacacsExternalServer-ForSDK          |
| hostIP         | String  | Yes           | The server IPV4 address             |                   | 1.1.1.1                              |
| connectionPort | Integer | No            | The port to connect the server      | 49                |                                      |
| single-Connect | Boolean | No            | Define the use of single connection | true              |                                      |
| sharedSecret   | String  | Yes           | The server shared secret            |                   | SharedSecret                         |
| timeout        | Integer | No            | The server timeout                  | 20                |                                      |

**get\_tacacs\_external\_servers\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS external servers by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers\_by\_name*

**get\_tacacs\_external\_servers\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get TACACS external servers by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers\_by\_id*

**update\_tacacs\_external\_servers\_by\_id** (*id*, *connection\_port=None*, *description=None*, *host\_ip=None*, *name=None*, *shared\_secret=None*, *single\_connect=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update TACACS external servers.

#### Parameters

- **connection\_port** (*integer*) – The port to connect the server, property of the request body.
- **description** (*string*) – description, property of the request body.
- **host\_ip** (*string*) – The server IPV4 address, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **shared\_secret** (*string*) – The server shared secret, property of the request body.
- **single\_connect** (*boolean*) – Define the use of single connection, property of the request body.
- **timeout** (*integer*) – The server timeout, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *connection\_port=None*, *description=None*, *host\_ip=None*, *name=None*, *shared\_secret=None*, *single\_connect=None*, *timeout=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_tacacs\_external\_servers\_by\_id*

**delete\_tacacs\_external\_servers\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes TACACS external servers.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_tacacs\_external\_servers\_by\_id*

**get\_tacacs\_external\_servers** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the TACACS external servers.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_external\_servers*

**get\_tacacs\_external\_servers\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS external servers.

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request's response
  - text(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for `get_tacacs_external_servers_generator`

**create\_tacacs\_external\_servers** (*connection\_port=None, description=None, host\_ip=None, name=None, shared\_secret=None, single\_connect=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates TACACS external servers.

#### Parameters

- **connection\_port** (*integer*) – The port to connect the server, property of the request body.
- **description** (*string*) – description, property of the request body.
- **host\_ip** (*string*) – The server IPV4 address, property of the request body.
- **name** (*string*) – name, property of the request body.
- **shared\_secret** (*string*) – The server shared secret, property of the request body.
- **single\_connect** (*boolean*) – Define the use of single connection, property of the request body.
- **timeout** (*integer*) – The server timeout, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*connection\_port=None, description=None, host\_ip=None, name=None, shared\_secret=None, single\_connect=None, timeout=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for [create\\_tacacs\\_external\\_servers](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS external servers.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## tacacs\_profile

### class TacacsProfile

Identity Services Engine TACACSPROFILE API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine TACACSPROFILE API and exposes the API as native Python methods that return native Python objects.

TACACS Profile API allows the client to add, delete, update, search and perform actions on TACACS profile.

#### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

#### Resource Definition

| Attribute  | Type   | Required | Description  | Example Values  |
|--|--------|----------|--|---|
| name   | String | Yes      | Resource Name  | Default Shell Profile   |
| id   | String | No       | Resource UUID, mandatory for update  | 93d7ee70-92b5-11eb-a39d-96858bc78604                              |
| description  | String | No       |  | Default Shell Profile   |
| sessionAttributes  | List   | No       | Holds list of session attributes. View type for GUI is Shell by default  |   |
| <ul style="list-style-type: none"> <li>• sessionAttributeList</li> </ul> | List   | No       | Array of dictionaries describing various attributes with the properties: - type (Enum. Allowed values: MANDATORY, OPTIONAL), - name (String), - value (String) | [ { "type" : "MANDATORY", "name" : "attr1", "value" : "value" } ] |

**get\_tacacs\_profile\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS profile by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_profile\_by\_name*



**get\_tacacs\_profile\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS profile by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_tacacs\_profile\_by\_id*

**update\_tacacs\_profile\_by\_id**(*id*, *description=None*, *name=None*, *session\_attributes=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a TACACS profile.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **session\_attributes** (*object*) – Holds list of session attributes. View type for GUI is Shell by default, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *description=None*, *name=None*, *session\_attributes=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for `update_tacacs_profile_by_id`

**`delete_tacacs_profile_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
This API deletes a TACACS profile.

#### Parameters

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for `delete_tacacs_profile_by_id`

**`get_tacacs_profile`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)  
This API allows the client to get all the TACACS profiles.

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_profile*

**get\_tacacs\_profile\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS profiles.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for [\*get\\_tacacs\\_profile\\_generator\*](#)

**create\_tacacs\_profile** (*description=None, name=None, session\_attributes=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a TACACS profile.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **name** (*string*) – name, property of the request body.
- **session\_attributes** (*object*) – Holds list of session attributes. View type for GUI is Shell by default, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

#### Return type [\*RestResponse\*](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, name=None, session\_attributes=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for [\*create\\_tacacs\\_profile\*](#)

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS profile.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## **tacacs\_server\_sequence**

### **class TacacsServerSequence**

Identity Services Engine TacacsServerSequence API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine TacacsServerSequence API and exposes the API as native Python methods that return native Python objects.

TACACS Server Sequence API allows the client to add, delete, update, search and perform actions on TACACS server sequence.

### **Revision History**

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### **Resource Definition**

| Attribute        | Type    | Required | Description  | Default Values | Example Values                              |
|------------------|---------|----------|--|----------------|---|
| name             | String  | Yes      | Resource Name  |                | TacacsServerSequence1                       |
| id               | String  | No       | Resource UUID, mandatory for update  |                | 1af3d6e2-cc3b-4603-b80f-6827768335ab        |
| description      | String  | No       |  |                | TacacsServerSequenceForSDK                  |
| serverList       | String  | Yes      | The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication |                | TacacsExternalServer1,TacacsExternalServer2 |
| localAccounting  | Boolean | No       |  | false          |   |
| remoteAccounting | Boolean | No       |  | true           |   |
| prefixStrip      | Boolean | No       | Define if a delimiter will be used for prefix strip  | false          |   |
| suffixStrip      | Boolean | No       | Define if a delimiter will be used for suffix strip  | false          |   |
| prefixDelimiter  | String  | No       | The delimiter that will be used for prefix strip   |                |   |
| suffixDelimiter  | String  | No       | The delimiter that will be used for suffix strip   | @              |   |

**get\_tacacs\_server\_sequence\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS server sequence by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_tacacs_server_sequence_by_name`*

**`get_tacacs_server_sequence_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a TACACS server sequence by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_tacacs_server_sequence_by_id`*

**`update_tacacs_server_sequence_by_id`** (*id*, *description=None*, *local\_accounting=None*, *name=None*, *prefix\_delimiter=None*, *prefix\_strip=None*, *remote\_accounting=None*, *server\_list=None*, *suffix\_delimiter=None*, *suffix\_strip=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update a TACACS server sequence.

**Parameters**

- **`description`** (*string*) – description, property of the request body.
- **`id`** (*basestring*) – id, property of the request body.

- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_delimiter** (*string*) – The delimiter that will be used for prefix strip, property of the request body.
- **prefix\_strip** (*boolean*) – Define if a delimiter will be used for prefix strip, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.
- **server\_list** (*string*) – The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication, property of the request body.
- **suffix\_delimiter** (*string*) – The delimiter that will be used for suffix strip, property of the request body.
- **suffix\_strip** (*boolean*) – Define if a delimiter will be used for suffix strip, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

### Return type *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

```
update_by_id (id, description=None, local_accounting=None, name=None, prefix_delimiter=None,  
              prefix_strip=None, remote_accounting=None, server_list=None, suffix_delimiter=None,  
              suffix_strip=None, headers=None, payload=None, active_validation=True, **query_parameters)
```

Alias for `update_tacacs_server_sequence_by_id`

```
delete_tacacs_server_sequence_by_id (id, headers=None, **query_parameters)
```

This API deletes a TACACS server sequence.

### Parameters

- **id** (*basestring*) – id path parameter.



- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_tacacs\_server\_sequence\_by\_id*

**get\_tacacs\_server\_sequence** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the TACACS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_server\_sequence*

**get\_tacacs\_server\_sequence\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the TACACS server sequences.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

#### Return type Generator

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_tacacs\_server\_sequence\_generator*

**create\_tacacs\_server\_sequence** (*description=None, local\_accounting=None, name=None, prefix\_delimiter=None, prefix\_strip=None, remote\_accounting=None, server\_list=None, suffix\_delimiter=None, suffix\_strip=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates a TACACS server sequence.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **local\_accounting** (*boolean*) – localAccounting, property of the request body.
- **name** (*string*) – name, property of the request body.
- **prefix\_delimiter** (*string*) – The delimiter that will be used for prefix strip, property of the request body.
- **prefix\_strip** (*boolean*) – Define if a delimiter will be used for prefix strip, property of the request body.
- **remote\_accounting** (*boolean*) – remoteAccounting, property of the request body.

- **server\_list** (*string*) – The names of Tacacs external servers separated by commas. The order of the names in the string is the order of servers that will be used during authentication, property of the request body.
- **suffix\_delimiter** (*string*) – The delimiter that will be used for suffix strip, property of the request body.
- **suffix\_strip** (*boolean*) – Define if a delimiter will be used for suffix strip, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, local\_accounting=None, name=None, prefix\_delimiter=None, prefix\_strip=None, remote\_accounting=None, server\_list=None, suffix\_delimiter=None, suffix\_strip=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_tacacs\_server\_sequence*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the TACACS server sequence.

### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## telemetry\_information

### **class TelemetryInformation**

Identity Services Engine TelemetryInformation API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine TelemetryInformation API and exposes the API as native Python methods that return native Python objects.

Telemetry Information API allows clients to get telemetry configuration information.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |  |  |
|------------|------------------|-------------------|---------------------------|--|--|
| 0          | 1.0              | 3.0               | Initial Cisco ISE Version |  |  |

### Resource Definition

| Attribute    | Type   | Re-quired | Description                         | Example Values                       |
|--------------|--------|-----------|-------------------------------------|--------------------------------------|
| name         | String | Yes       | Resource Name                       |                                      |
| id           | String | No        | Resource UUID, mandatory for update | ed7176fb-3faf-4060-845e-d5fa5236bd6e |
| description  | String | No        |                                     |                                      |
| status       | String | No        |                                     | SCHEnable                            |
| deploymentId | String | No        |                                     | ed7176fb-3faf-4060-845e-d5fa5236bd6e |
| udiSN        | String | No        |                                     | CH2MKIEGBGO                          |

**`get_telemetry_info_by_id`**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get telemetry information by ID.

#### Parameters

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_telemetry\_info\_by\_id*

**`get_telemetry_information`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the telemetry information. Filter: [deploymentId] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *`get_telemetry_information`*

**`get_telemetry_information_generator`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the telemetry information. Filter: [deploymentId] To search resources by using toDate column, follow the format: DD-MON-YY (Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13 Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 .

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** Generator

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*filter=None, filter\_type=None, page=None, size=None, headers=None, \*\*query\_parameters*)  
Alias for *`get_telemetry_information_generator`*

**`get_version`** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the telemetry information.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *`RestResponse`*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## trust\_sec\_configuration

**class TrustSecConfiguration**

Identity Services Engine TrustSec Configuration API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine TrustSec Configuration API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

**## Environment Variables** This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

**## Collection Variables** This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_security\_groups** (*headers=None*, *\*\*query\_parameters*)  
getSecurityGroups.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None*, *\*\*query\_parameters*)  
Alias for *get\_security\_groups*

**get\_security\_group\_acls** (*headers=None*, *\*\*query\_parameters*)  
getSecurityGroupAcls.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response



- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_egress_policies`** (*headers=None, \*\*query\_parameters*)  
getEgressPolicies.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_egress_matrices`** (*headers=None, \*\*query\_parameters*)  
getEgressMatrices.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**trust\_sec\_sxp****class TrustSecSxp**

Identity Services Engine TrustSec SXP API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine TrustSec SXP API and exposes the API as native Python methods that return native Python objects.

# Cisco ISE 3.0 pxGrid REST APIs

## License [Cisco Sample Code License](<https://developer.cisco.com/site/license/cisco-sample-code-license/>)

## Status These are the status icons for the requests so far. - : must create resources to test - : incomplete | untested - : unsupported | bug

## Environment Variables This collection uses environment variables in scripts in the **Tests** tab to store data (*id*, *name*, *portalId*, etc.) between requests. This allows you to *GET* or *POST* then immediately *GET {id}* on a resource. Using **No Environment** will cause this convenience functionality to fail so be sure to choose one.

## Collection Variables This collection includes some default variables that you will want to update or override with environment variables for your ISE deployment. Specifically, you will want to set: - *ise\_pgx*: the ISE PAN node name or IP address. Default: *ise.securitydemo.net* - *rest\_username*: the username for ERS API access. Must be a member of **SuperAdmin**, **ERSAdmin** or **ERSOperator** groups. Default: *admin* which is the ISE SuperAdmin - *rest\_password*: Default: *Cisco12345*

**get\_bindings** (*headers=None*, *\*\*query\_parameters*)  
getBindings.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## version\_and\_patch

### class VersionAndPatch

Identity Services Engine VersionAndPatch API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine VersionAndPatch API and exposes the API as native Python methods that return native Python objects.

Version and Patch API is used to provide the Cisco ISE version on which the Cisco ISE cluster is running, and a comma-separated list of the patches that are installed. The highest numbered patch is the patch that the cluster is running on.

**get\_ise\_version\_and\_patch** (*headers=None, \*\*query\_parameters*)

This API allows the client to get Cisco ISE version and patch information.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*headers=None, \*\*query\_parameters*)

Alias for *get\_ise\_version\_and\_patch*

## version\_info

### class VersionInfo

Identity Services Engine VersionInfo API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine VersionInfo API and exposes the API as native Python methods that return native Python objects.

Version and Patch API is used to provide the Cisco ISE version on which the Cisco ISE cluster is running, and a comma-separated list of the patches that are installed. The highest numbered patch is the patch that the cluster is running on.

**get\_version\_info** (*resource, headers=None, \*\*query\_parameters*)

Get all VersionInfo.

#### Parameters

- **resource** (*basestring*) – resource path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## endpoint

### class Endpoint

Identity Services Engine endpoint API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine endpoint API and exposes the API as native Python methods that return native Python objects.

Endpoint API allows the client to add, delete, update, search, register and de-register endpoints. Please note that each API description shows whether the API is supported in bulk operation. The Bulk section is showing only 'create' bulk operation however, all other operation which are bulk supported can be used in same way.

#### Revision History

| Re-<br>vi-<br>sion<br># | Re-<br>source<br>Version | Cisco<br>ISE<br>Version | Description                 | Revision<br>Modifica-<br>tion |  |
|-------------------------|--------------------------|-------------------------|-----------------------------|-------------------------------|--|
|                         |                          |                         |                             | Attribute                     | Description  |
| 0                       | 1.0                      | 1.3                     | Initial Cisco ISE Version   |                               |  |
| 1                       | 1.1                      | 2.1                     | Cisco ISE 2.1 model changes | custom-Attributes             | Added custom attributes for the user to include custom attributes when adding endpoints to Cisco ISE |
| 2                       | 1.2                      | 2.2                     | Cisco ISE 2.2 model changes | apiAdded                      | Added custom operation to get list of rejected endpoints: <code>'/getrejectedendpoints'</code>       |
|                         |                          |                         |                             | apiAdded                      | Added custom operation to release rejected endpoint: <code>'{id}/releaserejectedendpoint'</code>     |

### Resource Definition

| Attribute                    | Type    | Re-<br>quired | Description                         | Example Values                       |
|------------------------------|---------|---------------|-------------------------------------|--------------------------------------|
| name                         | String  | Yes           | Resource Name                       | 11:22:33:44:55:66                    |
| id                           | String  | No            | Resource UUID, mandatory for update | 172f8270-8f4f-11eb-b4a8-9eb04987ed29 |
| description                  | String  | No            |                                     | MyEndpoint                           |
| customAttributes             | Map     | No            | Key value map                       | {“key1” : “value1”}                  |
| groupId                      | String  | Yes           |                                     | aa13bb40-8bff-11e6-996c-525400b48521 |
| identityStore                | String  | No            |                                     | identityStore                        |
| identityStoreId              | String  | No            |                                     | identityStoreId                      |
| mac                          | String  | Yes           |                                     | 11:22:33:44:55:66                    |
| portalUser                   | String  | No            |                                     | portalUser                           |
| profileId                    | String  | No            |                                     | profileId                            |
| staticGroupAs-<br>signment   | Boolean | Yes           |                                     | true                                 |
| staticProfileAs-<br>signment | Boolean | Yes           |                                     | false                                |

**release\_rejected\_endpoint** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to release a rejected endpoint.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`release_rejected`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`release_rejected_endpoint`*

**`deregister_endpoint`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to de-register an endpoint.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`deregister`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`deregister_endpoint`*

**`get_rejected_endpoints`** (*headers=None*, *\*\*query\_parameters*)

This API allows the client to get the rejected endpoints.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_rejected** (*headers=None, \*\*query\_parameters*)

Alias for *get\_rejected\_endpoints*

**get\_endpoint\_by\_name** (*name, headers=None, \*\*query\_parameters*)

This API allows the client to get an endpoint by name.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoint\_by\_name*

**get\_endpoint\_by\_id** (*id, headers=None, \*\*query\_parameters*)

This API allows the client to get an endpoint by ID.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_endpoint\_by\_id*

**update\_endpoint\_by\_id** (*id*, *custom\_attributes=None*, *description=None*, *group\_id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to update an endpoint.

### Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.



- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *custom\_attributes=None*, *description=None*, *group\_id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_endpoint\_by\_id*

**delete\_endpoint\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

This API deletes an endpoint.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

Return type *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_endpoint\_by\_id*

**register\_endpoint** (*custom\_attributes=None*, *description=None*, *group\_id=None*, *id=None*, *identity\_store=None*, *identity\_store\_id=None*, *mac=None*, *mdm\_attributes=None*, *name=None*, *portal\_user=None*, *profile\_id=None*, *static\_group\_assignment=None*, *static\_profile\_assignment=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

This API allows the client to register an endpoint.

#### Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **id** (*string*) – id, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.
- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response

- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**register** (*custom\_attributes=None, description=None, group\_id=None, id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *register\_endpoint*

**get\_endpoints** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoints. Filter: Filters can be used to filter out Endpoints based on a set of attributes. This API currently provides the following filters: [logicalProfileName, portalUser, staticProfileAssignment, profileId, profile, groupId, staticGroupAssignment, mac] Example 1: The logicalProfileName filter can be used to get Endpoints that belong to a specific Logical Profile. The supported operator for logicalProfileNamefilter is EQ (equal to). The syntax to invoke the API with this filter: `/ers/config/endpoint?filter={filter name}.{operator}.{logical profile name}` Example: `https://{ise-ip}:9060/ers/config/endpoint?filter=logical ProfileName.EQ.LP_Apple` Example 2: To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET `/ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18` Sorting: [name, description].

**Parameters**

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_endpoints*

**`get_endpoints_generator`** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the endpoints. Filter: Filters can be used to filter out Endpoints based on a set of attributes. This API currently provides the following filters: [logicalProfileName, portalUser, staticProfileAssignment, profileId, profile, groupId, staticGroupAssignment, mac] Example 1: The logicalProfileName filter can be used to get Endpoints that belong to a specific Logical Profile. The supported operator for logicalProfileNamefilter is EQ (equal to). The syntax to invoke the API with this filter: `/ers/config/endpoint?filter={filter name}.{operator}.{logical profile name}` Example: `https://{ise-ip}:9060/ers/config/endpoint?filter=logical ProfileName.EQ.LP_Apple` Example 2: To search resources by using toDate column, follow the format: DD-MON-YY (Example:13-SEP-18) Day or Year:GET `/ers/config/guestuser/?filter=toDate.CONTAINS.13 Month:GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date:GET /ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18` Sorting: [name, description].

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

Alias for *get\_endpoints\_generator*

**create\_endpoint** (*custom\_attributes=None, description=None, group\_id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API creates an endpoint.

### Parameters

- **custom\_attributes** (*object*) – customAttributes, property of the request body.
- **description** (*string*) – description, property of the request body.
- **group\_id** (*string*) – groupId, property of the request body.
- **identity\_store** (*string*) – identityStore, property of the request body.
- **identity\_store\_id** (*string*) – identityStoreId, property of the request body.
- **mac** (*string*) – mac, property of the request body.
- **mdm\_attributes** (*object*) – mdmAttributes, property of the request body.
- **name** (*string*) – name, property of the request body.
- **portal\_user** (*string*) – portalUser, property of the request body.
- **profile\_id** (*string*) – profileId, property of the request body.
- **static\_group\_assignment** (*boolean*) – staticGroupAssignment, property of the request body.
- **static\_profile\_assignment** (*boolean*) – staticProfileAssignment, property of the request body.

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*custom\_attributes=None, description=None, group\_id=None, identity\_store=None, identity\_store\_id=None, mac=None, mdm\_attributes=None, name=None, portal\_user=None, profile\_id=None, static\_group\_assignment=None, static\_profile\_assignment=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_endpoint*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the endpoint.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.

- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_for\_endpoint** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

This API allows the client to submit the bulk request.

#### Parameters

- **operation\_type** (*string*) – operationType, property of the request body.
- **resource\_media\_type** (*string*) – resourceMediaType, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request** (*operation\_type=None, resource\_media\_type=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_request\_for\_endpoint*

**monitor\_bulk\_status\_endpoint** (*bulkid, headers=None, \*\*query\_parameters*)

This API allows the client to monitor the bulk request.

#### Parameters

- **bulkid** (*basestring*) – bulkid path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`monitor_bulk_status`** (*bulkid*, *headers=None*, *\*\*query\_parameters*)

Alias for *monitor\_bulk\_status\_endpoint*

## nbar\_app

### **class** `NbarApp`

Identity Services Engine nbarApp API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine nbarApp API and exposes the API as native Python methods that return native Python objects.

**`get_nbar_apps`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

Get all NBAR Applications.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).



**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for *get\_nbar\_apps*

**`get_nbar_apps_generator`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all NBAR Applications.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_nbar\_apps\_generator*

**create\_nbar\_app** (*description=None, id=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Create NBAR application.

**Parameters**

- **description** (*string*) – description, property of the request body.
- **id** (*string*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **network\_identities** (*list*) – Array of NIs, property of the request body (list of objects).
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*description=None, id=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for [create\\_nbar\\_app](#)

**get\_nbar\_app\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
 Get NBAR Application by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** [RestResponse](#)

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
 Alias for [get\\_nbar\\_app\\_by\\_id](#)

**update\_nbar\_app\_by\_id** (*id, description=None, name=None, network\_identities=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Update NBAR Application.

#### Parameters

- **description** (*string*) – description, property of the request body.
- **id** (*basestring*) – id, property of the request body.
- **name** (*string*) – name, property of the request body.
- **network\_identities** (*list*) – Array of NIs, property of the request body (list of objects).
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`update_by_id`** (*id*, *description=None*, *name=None*, *network\_identities=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
Alias for *update\_nbar\_app\_by\_id*

**`delete_nbar_app_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
Delete NBAR Application.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)  
Alias for *delete\_nbar\_app\_by\_id*

## portal

### class Portal

Identity Services Engine portal API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine portal API and exposes the API as native Python methods that return native Python objects.

Portal API allows the client to search profiles.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description   |
|------------|------------------|-------------------|---|
| 0          | 1.0              | 1.2               | Initial Cisco ISE Version                           |
| 1          | 2.0              | 1.3               | Introducing new schema - not supporting 1.0 anymore |

### Resource Definition

| Attribute   | Type   | Required | Description                         | Example Values                            |
|-------------|--------|----------|-------------------------------------|---|
| name        | String | Yes      | Resource Name                       | ISE Portal (default)                      |
| id          | String | No       | Resource UUID, mandatory for update | bc5524ea-b1e5-47ed-a907-5304821da916      |
| description | String | No       |                                     | ISE Portal for saml based feature purpose |
| portal-Type | String | No       |                                     | GUEST                                     |

**get\_portal\_by\_id**(*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a portal by ID.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_portal\_by\_id*

**`get_portals`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sortasc=None*, *sortdsc=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the portals. Filter: [name, description]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

#### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sortasc`** (*basestring*) – sortasc query parameter. sort asc.
- **`sortdsc`** (*basestring*) – sortdsc query parameter. sort desc.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

Return type *RestResponse*

Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portals*

**get\_portals\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the portals. Filter: [name, description]  
To search resources by using toDate column, follow the format: DD-MON-YY  
(Example: 13-SEP-18) Day or Year: GET /ers/config/guestuser/?filter=toDate.CONTAINS.13  
Month: GET /ers/config/guestuser/?filter=toDate.CONTAINS.SEP Date: GET  
/ers/config/guestuser/?filter=toDate.CONTAINS.13-SEP-18 Sorting: [name, description].

Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sortasc** (*basestring*) – sortasc query parameter. sort asc.
- **sortdsc** (*basestring*) – sortdsc query parameter. sort desc.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. **Simple filtering** should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. (Operator: Description), (EQ: Equals), (NEQ: Not Equals), (GT: Greater Than), (LT: Less Than), (STARTSW: Starts With), (NSTARTSW: Not Starts With), (ENDSW: Ends With), (NENDSW: Not Ends With), (CONTAINS: Contains), (NCONTAINS: Not Contains), .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

Returns

A generator object containing the following object.

- RestResponse: REST response with following properties:
  - headers(MyDict): response headers.
  - response(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - content(bytes): representation of the request’s response
  - text(str): representation of the request’s response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sortasc=None, sortdsc=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_portals\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the portal.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## proxy

### **class Proxy**

Identity Services Engine proxy API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine proxy API and exposes the API as native Python methods that return native Python objects.

**get\_proxy\_connection** (*headers=None, \*\*query\_parameters*)

The following functionalities are impacted by the proxy settings: Partner Mobile Management Endpoint Profiler Feed Service Update Endpoint Posture Update Endpoint Posture Agent Resources Download CRL (Certificate Revocation List) Download SMS Message Transmission Social Login Rest Auth Service Azure AD pxGrid Cloud .

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .



- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_proxy\_connection** (*bypass\_hosts=None, fqdn=None, password=None, password\_required=None, port=None, user\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

The following functionalities are impacted by the proxy settings: Partner Mobile Management Endpoint Profiler Feed Service Update Endpoint Posture Update Endpoint Posture Agent Resources Download CRL (Certificate Revocation List) Download SMS Message Transmission Social Login Rest Auth Service Azure AD pxGrid Cloud .

#### Parameters

- **bypass\_hosts** (*string*) – Bypass hosts for the proxy connection, property of the request body.
- **fqdn** (*string*) – proxy IP address or DNS-resolvable host name, property of the request body.
- **password** (*string*) – Password for the proxy connection, property of the request body.
- **password\_required** (*boolean*) – Indicates whether password configuration is required for Proxy., property of the request body.
- **port** (*integer*) – Port for proxy connection. should be between 1 and 65535, property of the request body.
- **user\_name** (*string*) – User name for the proxy connection, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

## px\_grid\_node

### **class PxGridNode**

Identity Services Engine pxGridNode API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine pxGridNode API and exposes the API as native Python methods that return native Python objects.

pxGrid Node API allows the client to retrieve pxGrid information, delete an existing pxGrid node, and approve new pxGrid nodes. **Note:** From Cisco ISE Release 3.1, all pxGrid connections must be based on pxGrid 2.0. pxGrid 1.0-based (XMPP-based) integrations will cease to work on Cisco ISE from Release 3.1 onwards. pxGrid Version 2.0, which is based on WebSockets, was introduced in Cisco ISE Release 2.4. We recommend that you plan and upgrade your other systems to pxGrid 2.0-compliant versions in order to prevent potential disruptions, if any, to integrations.

### Revision History

| Revision # | Resource Version | Cisco ISE Version | Description               |
|------------|------------------|-------------------|---------------------------|
| 0          | 1.0              | 2.4               | Initial Cisco ISE Version |

### Resource Definition

| Attribute   | Type   | Re-<br>quired | Description                         | Example Values                       |
|-------------|--------|---------------|-------------------------------------|--------------------------------------|
| name        | String | Yes           | Resource Name                       | ers-sample-client                    |
| id          | String | No            | Resource UUID, mandatory for update | ab6deded-fcc2-47ff-8577-0014737c8fcf |
| description | String | No            |                                     | ERS sample client                    |
| status      | String | No            |                                     | Online (XMPP)                        |
| auth-Method | String | No            |                                     | Certificate                          |
| groups      | String | No            |                                     |                                      |

## pxGrid Characterization

### Session data Consumption over pxGrid

On a 35 node Cisco ISE deployment with a dedicated primary Policy Administration node (PAN), dedicated secondary PAN, dedicated primary Monitoring and Troubleshooting node (MnT node), dedicated secondary MnT, dedicated pxGrid node and 30 heterogeneous Policy Service node (PSN) platforms, there was no delay observed in consuming session data with the following parameters as shown in the table below:

| RADIUS Traffic                         | Total number of sessions in the deployment | Number of pxGrid clients (subscribers to the session topic) | pxGrid client's delay in consuming session data |
|--|--|---|---|
| Upto 500 transactions per second (TPS) | ~2 million                                 | 50  | No delay  |

### Bulk download time taken

On a 35 node Cisco ISE deployment with a dedicated primary PAN, dedicated secondary PAN, dedicated primary MnT, dedicated secondary MnT, dedicated pxGrid node and 30 heterogeneous PSN Platforms, the bulk download time for all the pxGrid clients is shown in the table below:

| Total number of sessions in the deployment | Number of pxGrid clients (subscribers to the session topic) | Time taken for bulk download |
|--|---|------------------------------|
| 2 million                                  | 50  | ~17 minutes                  |

**Note:** From Cisco ISE Release 3.1, we can use either `pxgridnode` or `pxgridNode` in the URL.

**approve\_px\_grid\_node** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to approve a pxGrid node. Only pending pxGrid nodes can be approved.

#### Parameters

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers(MyDict)**: response headers.
- **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content(bytes)**: representation of the request's response
- **text(str)**: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**approve** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *approve\_px\_grid\_node*

**get\_px\_grid\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a pxGrid node by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_px\_grid\_node\_by\_name*

**delete\_px\_grid\_node\_by\_name** (*name*, *headers=None*, *\*\*query\_parameters*)

This API deletes a pxGrid node by name.

**Parameters**

- **name** (*basestring*) – name path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_name`** (*name*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_px_grid_node_by_name`*

**`get_px_grid_node_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get a pxGrid node by ID.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`get_px_grid_node_by_id`*

**`get_px_grid_node`** (*page=None*, *size=None*, *headers=None*, *\*\*query\_parameters*)

This API allows the client to get all the npxGrid nodes.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_px\_grid\_node*

**`get_px_grid_node_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

This API allows the client to get all the npxGrid nodes.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

A generator object containing the following object.

- `RestResponse`: REST response with following properties:
  - `headers(MyDict)`: response headers.
  - `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
  - `content(bytes)`: representation of the request's response
  - `text(str)`: representation of the request's response

**Return type** `Generator`

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all_generator`** (*page=None, size=None, headers=None, \*\*query\_parameters*)

Alias for *get\_px\_grid\_node\_generator*

**get\_version** (*headers=None, \*\*query\_parameters*)

This API helps to retrieve the version information related to the pxGrid node.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## sg\_vn\_mapping

### class SgVnMapping

Identity Services Engine sgVnMapping API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine sgVnMapping API and exposes the API as native Python methods that return native Python objects.

**get\_sg\_vn\_mappings** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Security Group and Virtual Network mappings.

#### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With

NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS  
Contains NCONTAINS Not Contains .

- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
Alias for *get\_sg\_vn\_mappings*

**get\_sg\_vn\_mappings\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Security Group and Virtual Network mappings.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .



- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers**(MyDict): response headers.
  - **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content**(bytes): representation of the request's response
  - **text**(str): representation of the request's response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)  
 Alias for *get\_sg\_vn\_mappings\_generator*

**create\_sg\_vn\_mapping** (*id=None, last\_update=None, sg\_name=None, sgt\_id=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create Security Group and Virtual Network mapping.

### Parameters

- **id** (*string*) – Identifier of the SG-VN mapping, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the SG-VN mapping, property of the request body.
- **sg\_name** (*string*) – Name of the associated Security Group to be used for identity if id is not provided, property of the request body.
- **sgt\_id** (*string*) – Identifier of the associated Security Group which is required unless its name is provided, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.

- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*id=None, last\_update=None, sg\_name=None, sgt\_id=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_sg\_vn\_mapping*

**bulk\_create\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create SG-VN Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

#### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_create\_sg\_vn\_mappings*

**bulk\_delete\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Delete SG-VN Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Alias for *bulk\_delete\_sg\_vn\_mappings*

**bulk\_update\_sg\_vn\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
 Update SG-VN Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.

- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_update** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_update\_sg\_vn\_mappings*

**get\_sg\_vn\_mapping\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Get Security Group and Virtual Network mapping by id.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_sg\_vn\_mapping\_by\_id*

**update\_sg\_vn\_mapping\_by\_id** (*id, last\_update=None, sg\_name=None, sgt\_id=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update Security Group and Virtual Network mapping.

**Parameters**

- **`id`** (*basestring*) – Identifier of the SG-VN mapping, property of the request body.
- **`last_update`** (*string*) – Timestamp for the last update of the SG-VN mapping, property of the request body.

- **sg\_name** (*string*) – Name of the associated Security Group to be used for identity if id is not provided, property of the request body.
- **sgt\_id** (*string*) – Identifier of the associated Security Group which is required unless its name is provided, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *last\_update=None*, *sg\_name=None*, *sgt\_id=None*, *vn\_id=None*, *vn\_name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)  
 Alias for *update\_sg\_vn\_mapping\_by\_id*

**delete\_sg\_vn\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)  
 Delete Security Group and Virtual Network mapping.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *delete\_sg\_vn\_mapping\_by\_id*

## tasks

### class Tasks

Identity Services Engine tasks API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine tasks API and exposes the API as native Python methods that return native Python objects.

**`get_task_status`** (*headers=None*, *\*\*query\_parameters*)

get all task status.

**Parameters**

- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(list)`: A list of `MyDict` objects. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_task_status_by_id`** (*task\_id*, *headers=None*, *\*\*query\_parameters*)

Monitor task status.

**Parameters**

- **task\_id** (*basestring*) – taskId path parameter. The id of the task executed before.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**telemetry****class Telemetry**

Identity Services Engine telemetry API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine telemetry API and exposes the API as native Python methods that return native Python objects.

**get\_transport\_gateway** (*headers=None, \*\*query\_parameters*)

Transport Gateway acts a proxy for the communication between the ISE servers in your network and the Telemetry servers in case of air-gapped network.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_transport\_gateway** (*enable\_transport\_gateway=None, url=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Transport Gateway acts a proxy for the communication between the ISE servers in your network and the Telemetry servers in case of air-gapped network.

#### Parameters

- **enable\_transport\_gateway** (*boolean*) – Indicates whether transport gateway is enabled or not., property of the request body.
- **url** (*string*) – URL of transport gateway, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## virtual\_network

### class VirtualNetwork

Identity Services Engine virtualNetwork API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine virtualNetwork API and exposes the API as native Python methods that return native Python objects.

**get\_virtual\_networks** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all Virtual Networks.

#### Parameters

- **page** (*int*) – page query parameter. Page number.



- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.
- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request’s response
- **text**(str): representation of the request’s response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

Alias for *get\_virtual\_networks*

**get\_virtual\_networks\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

Get all Virtual Networks.

### Parameters

- **page** (*int*) – page query parameter. Page number.
- **size** (*int*) – size query parameter. Number of objects returned per page.
- **sort** (*basestring*) – sort query parameter. sort type asc or desc.

- **sort\_by** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **filter** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **filter\_type** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.

- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object’s properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request’s response
  - **text(str)**: representation of the request’s response

### Return type Generator

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*,  
*sort\_by=None*, *headers=None*, *\*\*query\_parameters*)  
Alias for *get\_virtual\_networks\_generator*

**create\_virtual\_network** (*additional\_attributes=None*, *id=None*, *last\_update=None*,  
*name=None*, *headers=None*, *payload=None*, *active\_validation=True*,  
*\*\*query\_parameters*)

Create Virtual Network.

### Parameters

- **additional\_attributes** (*string*) – JSON String of additional attributes for the Virtual Network, property of the request body.
- **id** (*string*) – Identifier of the Virtual Network, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the Virtual Network, property of the request body.

- **name** (*string*) – Name of the Virtual Network, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**create** (*additional\_attributes=None, id=None, last\_update=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *create\_virtual\_network*

**bulk\_create\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_create\_virtual\_networks*

**bulk\_delete\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Delete Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_delete\_virtual\_networks*

**bulk\_update\_virtual\_networks** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update Virtual Network in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_update** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_update\_virtual\_networks*

**get\_virtual\_network\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Get Virtual Network by id.

**Parameters**

- **`id`** (*basestring*) – id path parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)  
Alias for *get\_virtual\_network\_by\_id*

**update\_virtual\_network\_by\_id** (*id, additional\_attributes=None, last\_update=None, name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update Virtual Network.

### Parameters

- **additional\_attributes** (*string*) – JSON String of additional attributes for the Virtual Network, property of the request body.
- **id** (*basestring*) – Identifier of the Virtual Network, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the Virtual Network, property of the request body.
- **name** (*string*) – Name of the Virtual Network, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**update\_by\_id** (*id*, *additional\_attributes=None*, *last\_update=None*, *name=None*, *headers=None*, *payload=None*, *active\_validation=True*, *\*\*query\_parameters*)

Alias for *update\_virtual\_network\_by\_id*

**delete\_virtual\_network\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Delete Virtual Network.

### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- **headers**(MyDict): response headers.

- `response(MyDict)`: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`delete_by_id`** (*id*, *headers=None*, *\*\*query\_parameters*)

Alias for *`delete_virtual_network_by_id`*

## vn\_vlan\_mapping

### **class VnVlanMapping**

Identity Services Engine vnVlanMapping API (version: 3.1\_Patch\_1).

Wraps the Identity Services Engine vnVlanMapping API and exposes the API as native Python methods that return native Python objects.

**`get_vn_vlan_mappings`** (*filter=None*, *filter\_type=None*, *page=None*, *size=None*, *sort=None*, *sort\_by=None*, *headers=None*, *\*\*query\_parameters*)

Get all VN-Vlan Mappings.

**Parameters**

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring*, *list*, *set*, *tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

### Raises

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**`get_all`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for *get\_vn\_vlan\_mappings*

**`get_vn_vlan_mappings_generator`** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Get all VN-Vlan Mappings.

### Parameters

- **`page`** (*int*) – page query parameter. Page number.
- **`size`** (*int*) – size query parameter. Number of objects returned per page.
- **`sort`** (*basestring*) – sort query parameter. sort type asc or desc.
- **`sort_by`** (*basestring*) – sortBy query parameter. sort column by which objects needs to be sorted.
- **`filter`** (*basestring, list, set, tuple*) – filter query parameter. Simple filtering should be available through the filter query string parameter. The structure of a filter is a triplet of field operator and value separated with dots. More than one filter can be sent. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the “filterType=or” query string parameter. Each resource Data model description should specify if an attribute is a filtered field. OPERATOR DESCRIPTION EQ Equals NEQ Not Equals GT Greater Than LT Less Than STARTSW Starts With NSTARTSW Not Starts With ENDSW Ends With NENDSW Not Ends With CONTAINS Contains NCONTAINS Not Contains .
- **`filter_type`** (*basestring*) – filterType query parameter. The logical operator common to ALL filter criteria will be by default AND, and can be changed by using the parameter.
- **`headers`** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **`**query_parameters`** – Additional query parameters (provides support for parameters that may be added in the future).

### Returns

A generator object containing the following object.



- **RestResponse**: REST response with following properties:
  - **headers(MyDict)**: response headers.
  - **response(MyDict)**: response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
  - **content(bytes)**: representation of the request's response
  - **text(str)**: representation of the request's response

**Return type** Generator

**Raises**

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_all\_generator** (*filter=None, filter\_type=None, page=None, size=None, sort=None, sort\_by=None, headers=None, \*\*query\_parameters*)

Alias for *get\_vn\_vlan\_mappings\_generator*

**create\_vn\_vlan\_mapping** (*id=None, is\_data=None, is\_default\_vlan=None, last\_update=None, max\_value=None, name=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create VN-Vlan Mapping.

**Parameters**

- **id** (*string*) – Identifier of the VN-Vlan Mapping, property of the request body.
- **is\_data** (*boolean*) – Flag which indicates whether the Vlan is data or voice type, property of the request body.
- **is\_default\_vlan** (*boolean*) – Flag which indicates if the Vlan is default, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the VN-Vlan Mapping, property of the request body.
- **max\_value** (*integer*) – Max value, property of the request body.
- **name** (*string*) – Name of the Vlan, property of the request body.
- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- **headers(MyDict)**: response headers.

- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**create** (*id=None, is\_data=None, is\_default\_vlan=None, last\_update=None, max\_value=None, name=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *create\_vn\_vlan\_mapping*

**bulk\_create\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Create VN-Vlan Mappings in bulk.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

**Returns**

REST response with following properties:

- `headers(MyDict)`: response headers.
- `response(MyDict)`: response body as a `MyDict` object. Access the object's properties by using the dot notation or the bracket notation.
- `content(bytes)`: representation of the request's response
- `text(str)`: representation of the request's response

**Return type** *RestResponse*

**Raises**

- **`TypeError`** – If the parameter types are incorrect.
- **`MalformedRequest`** – If the request body created is invalid.
- **`ApiError`** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_create** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_create\_vn\_vlan\_mappings*

**bulk\_delete\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Delete VN-Vlan Mappings in bulk.

**Parameters**

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_delete** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Alias for *bulk\_delete\_vn\_vlan\_mappings*

**bulk\_update\_vn\_vlan\_mappings** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)  
Update VN-Vlan Mappings in bulk.

#### Parameters

- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*list*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- headers(MyDict): response headers.
- response(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- content(bytes): representation of the request's response
- text(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.

- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**bulk\_request\_update** (*headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Alias for *bulk\_update\_vn\_vlan\_mappings*

**get\_vn\_vlan\_mapping\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Get VN-Vlan Mapping by id.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**get\_by\_id** (*id, headers=None, \*\*query\_parameters*)

Alias for *get\_vn\_vlan\_mapping\_by\_id*

**update\_vn\_vlan\_mapping\_by\_id** (*id, is\_data=None, is\_default\_vlan=None, last\_update=None, max\_value=None, name=None, vn\_id=None, vn\_name=None, headers=None, payload=None, active\_validation=True, \*\*query\_parameters*)

Update VN-Vlan Mapping.

#### Parameters

- **id** (*basestring*) – Identifier of the VN-Vlan Mapping, property of the request body.
- **is\_data** (*boolean*) – Flag which indicates whether the Vlan is data or voice type, property of the request body.
- **is\_default\_vlan** (*boolean*) – Flag which indicates if the Vlan is default, property of the request body.
- **last\_update** (*string*) – Timestamp for the last update of the VN-Vlan Mapping, property of the request body.
- **max\_value** (*integer*) – Max value, property of the request body.
- **name** (*string*) – Name of the Vlan, property of the request body.

- **vn\_id** (*string*) – Identifier for the associated Virtual Network which is required unless its name is provided, property of the request body.
- **vn\_name** (*string*) – Name of the associated Virtual Network to be used for identity if id is not provided, property of the request body.
- **id** – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **payload** (*dict*) – A JSON serializable Python object to send in the body of the Request.
- **active\_validation** (*bool*) – Enable/Disable payload validation. Defaults to True.
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

**delete\_vn\_vlan\_mapping\_by\_id** (*id*, *headers=None*, *\*\*query\_parameters*)

Delete VN-Vlan Mapping.

#### Parameters

- **id** (*basestring*) – id path parameter.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- **\*\*query\_parameters** – Additional query parameters (provides support for parameters that may be added in the future).

#### Returns

REST response with following properties:

- **headers**(MyDict): response headers.
- **response**(MyDict): response body as a MyDict object. Access the object's properties by using the dot notation or the bracket notation.
- **content**(bytes): representation of the request's response
- **text**(str): representation of the request's response

**Return type** *RestResponse*

#### Raises

- **TypeError** – If the parameter types are incorrect.
- **MalformedRequest** – If the request body created is invalid.
- **ApiError** – If the Identity Services Engine cloud returns an error.

## Identity Services Engine Data Object

### MyDict

#### **class MyDict**

A **Python** `_dict_` subclass which tries to act like **JavaScript** objects, so you can use the **dot notation** (`.`) to access members of the object. If the member doesn't exist yet then it's created when you assign something to it. Brackets notation (`d['foo']`) is also possible.

#### **has\_path** (*key*)

Check existence of “path” in the tree.

```
d = MyDict({'foo': {'bar': 'baz'}})
d.has_path('foo.bar') == True
```

It only supports “dot-notation” (`d.foo.bar`)

#### **get** (*key*, *default=None*)

Return the value for key if key is in the dictionary, else default.

#### **to\_json** ()

Returns a JSON-like string representing this instance

## DownloadResponse

#### **class DownloadResponse**

Download Response wrapper.

Bases: `urllib3.response.HTTPResponse`. For more information check the [urllib3 documentation](#)

HTTP Response container.

#### **property data**

The `HTTPResponse`'s data

#### **property filename**

The downloaded filename

#### **property dirpath**

The downloaded directory path

#### **property path**

The download file path

## RestResponse

### **class RestResponse**

RestResponse to represent the response of the calls to the Identity Services Engine APIs.

#### **property content**

The content (bytes) of the RestResponse.

#### **property text**

The text (str) of the RestResponse.

#### **property status\_code**

The HTTP status code from the RestResponse.

#### **property response**

The response (MyDict) of the RestResponse.

#### **property headers**

The headers (MyDict) of the RestResponse.

## Exceptions

### **exception ciscoisesdkException**

Bases: `Exception`

Base class for all ciscoisesdk package exceptions.

### **exception AccessTokenError**

Bases: `ciscoisesdk.exceptions.ciscoisesdkException`

Raised when an incorrect Identity Services Engine Access Token has been provided.

### **exception VersionError**

Bases: `ciscoisesdk.exceptions.ciscoisesdkException`

Raised when an incorrect Identity Services Engine version has been provided.

### **exception ApiError**

Bases: `ciscoisesdk.exceptions.ciscoisesdkException`

Errors returned in response to requests sent to the Identity Services Engine APIs.

Several data attributes are available for inspection.

#### **response = None**

The `requests.Response` object returned from the API call.

#### **request = None**

The `requests.PreparedRequest` of the API call.

#### **status\_code = None**

The HTTP status code from the API response.

#### **status = None**

The HTTP status from the API response.

#### **details\_str = None**

The text from the API response.

#### **details = None**

The parsed JSON details from the API response.

**message = None**

The error message from the parsed API response.

**description = None**

A description of the HTTP Response Code from the API docs.

**additional\_data = None**

Additional data describing the issue

**exception RateLimitError**

Bases: `ciscoisesdk.exceptions.ApiError`

Identity Services Engine Rate-Limit exceeded Error.

Raised when a rate-limit exceeded message is received and the request **will not** be retried.

**retry\_after = None**

The *Retry-After* time period (in seconds) provided by Identity Services Engine.

Defaults to 15 seconds if the response *Retry-After* header isn't present in the response headers, and defaults to a minimum wait time of 1 second if Identity Services Engine returns a *Retry-After* header of 0 seconds.

**exception RateLimitWarning**

Bases: `UserWarning`

Identity Services Engine rate-limit exceeded warning.

Raised when a rate-limit exceeded message is received and the request will be retried.

**retry\_after = None**

The *Retry-After* time period (in seconds) provided by Identity Services Engine.

Defaults to 15 seconds if the response *Retry-After* header isn't present in the response headers, and defaults to a minimum wait time of 1 second if Identity Services Engine returns a *Retry-After* header of 0 seconds.

**exception MalformedRequest**

Bases: `ciscoisesdk.exceptions.ciscoisesdkException`

Raised when a malformed request is received from Identity Services Engine user.

**exception DownloadFailure**

Bases: `ciscoisesdk.exceptions.ciscoisesdkException`

Errors returned in response to requests sent to the Identity Services Engine APIs with `stream=True`.

Several data attributes are available for inspection.

**response = None**

The `requests.Response` object returned from the API call.

**request = None**

The `requests.PreparedRequest` of the API call.

**status\_code = None**

The HTTP status code from the API response.

**status = None**

The HTTP status from the API response.

**original\_error = None**

The original exception

**raw = None**

The raw value of the API response

*Copyright (c) 2021 Cisco and/or its affiliates.*



## THE DEVELOPMENT COMMUNITY

Interested in contributing to the project? Please review our community's Code of Conduct and then check out the Contributing page for info to help you get started.

### 2.1 Contributor Covenant Code of Conduct

#### 2.1.1 Our Pledge

In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, gender identity and expression, level of experience, nationality, personal appearance, race, religion, or sexual identity and orientation.

#### 2.1.2 Our Standards

Examples of behavior that contributes to creating a positive environment include:

- Using welcoming and inclusive language
- Being respectful of differing viewpoints and experiences
- Gracefully accepting constructive criticism
- Focusing on what is best for the community
- Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

- The use of sexualized language or imagery and unwelcome sexual attention or advances
- Trolling, insulting/derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or electronic address, without explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

### 2.1.3 Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

### 2.1.4 Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

### 2.1.5 Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team. The project team will review and investigate all complaints, and will respond in a way that it deems appropriate to the circumstances. The project team is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

Project maintainers who do not follow or enforce the Code of Conduct in good faith may face temporary or permanent repercussions as determined by other members of the project's leadership.

### 2.1.6 Attribution

This Code of Conduct is adapted from the [Contributor Covenant](#), version 1.4.

## 2.2 Contributing

*ciscoisesdk* is a community development project. Feedback, thoughts, ideas, and code contributions are most welcome!

### 2.2.1 How to contribute Feedback, Issues, Thoughts and Ideas

Please use the [issues](#) page to report issues or post ideas for enhancement.

### 2.2.2 Interested in Contributing Code?

#### Developer Scripts

We have created some scripts to automate everyday actions needed when working on the project. Please see the [script](#) directory, and its README for more information.

## Notes on the Test Suite

The test suite is grouped by Identity Services Engine versions supported in the Cisco Identity Services Engine SDK.

The test suite uses a mockup server, instead of calling to a Identity Services Engine server directly.

The mockup server is not perfect, that is why it is sometimes necessary to rerun a failed test, we do this by using *pytest-rerunfailures*. On the *script/test* file, you can find the *pytest-rerunfailures* settings, adjust them locally if strictly necessary.

## Contributing Code - Using the CI Automated Testing

1. Check for open [issues](#) or create a new *issue* for the item you want to work on and make sure to comment and let us know that you are working on it.
2. Fork a copy of the [repository](#) and clone your forked repository to your development environment.
3. Run *script/setup* to install the development dependencies and setup your environment.
4. Configure the following environment variables in your development environment:
  - `TEST_IDENTITY_SERVICES_ENGINE_ENCODED_AUTH` - Your test account's Identity Services Engine encoded\_auth (username:password encoded in base 64). This variable has priority over username and password.
  - `TEST_IDENTITY_SERVICES_ENGINE_USERNAME` - Your test account's Identity Services Engine username.
  - `TEST_IDENTITY_SERVICES_ENGINE_PASSWORD` - Your test account's Identity Services Engine password.
  - `DEBUG_ENVIRONMENT_VARIABLE` - Your test's debug variable, which controls whether to log information about Identity Services Engine APIs' request and response process.
  - `VERSION_ENVIRONMENT_VARIABLE` - The Identity Services Engine API's version used to test the SDK.
5. Add your code to your forked repository.

If you are creating some new feature or functionality (excellent!), please also write a [test](#) to verify that your code works as expected.
6. We follow [PEP8](#) reasonably strictly for this project. Please make sure your code passes the linter.

Run *script/test lint* or simply run *flake8* from the project root.
7. Commit your changes.
8. Submit a [pull request](#). The GitHub/Travis CI system runs the test suite against your pull request code. If any tests fail, please review your changes. If everything looks good, we will gladly merge your request!

## Contributing Code - Running the Test Suite Locally

1. Check for open [issues](#) or create a new 'issue' for the item you want to work on and make sure to comment and let us know that you are working on it.

2. Fork a copy of the [repository](#) and clone your forked repository to your development environment.

Run `script/setup` to install the development dependencies and setup your environment.

3. Configure the following environment variables in your development environment:

- `TEST_IDENTITY_SERVICES_ENGINE_ENCODED_AUTH` - Your test account's Identity Services Engine encoded\_auth (username:password encoded in base 64). This variable has priority over username and password.
- `TEST_IDENTITY_SERVICES_ENGINE_USERNAME` - Your test account's Identity Services Engine username.
- `TEST_IDENTITY_SERVICES_ENGINE_PASSWORD` - Your test account's Identity Services Engine password.
- `DEBUG_ENVIRONMENT_VARIABLE` - Your test's debug variable, which controls whether to log information about Identity Services Engine APIs' request and response process.
- `VERSION_ENVIRONMENT_VARIABLE` - The Identity Services Engine API's version used to test the SDK.

*Example:*

```
#!/usr/bin/env bash
export TEST_IDENTITY_SERVICES_ENGINE_ENCODED_AUTH="<test account's_
↪username:password encoded in base 64>"
```

4. Add your code to your forked repository.

If you are creating some new feature or functionality (excellent!), please also write a [test](#) to verify that your code works as expected.

5. We follow [PEP8](#) reasonably strictly for this project. Please make sure your code passes the linter.

Run `script/test lint` from the project root.

6. Commit your changes.

7. Ensure your code passes all of the default tests for all the involved Identity Services Engine versions.

Run `script/test` and ensure all tests execute successfully.

8. Submit a [pull request](#). If everything looks good, we will gladly merge your request!

## 2.3 Changelog

All notable changes to this project will be documented in this file.

The format is based on [Keep a Changelog](#), and this project adheres to [Semantic Versioning](#).

### 2.3.1 Unreleased

#### 2.3.2 2.0.7 - 2022-01-11

##### Fixed

- The following url have been repaired in v3\_1\_0.mics.session\_disconnect, v3\_1\_1.mics.session\_disconnect and v3\_1\_patch\_1.mics.session\_disconnect
  - From /admin/API/mnt/CoA/Disconnect/{PSN\_NAME}/{MAC}/{DISCONNECT\_TYPE}/{NAS\_IPV4}/{ENDPOINT\_IP} to /admin/API/mnt/CoA/Disconnect/{PSN\_NAME}/{MAC}/{DISCONNECT\_TYPE}/{NAS\_IPV4}/{ENDPOINT\_IP}

#### 2.3.3 2.0.6 - 2022-27-10

##### Fixed

- The following variable names have been repaired in v3\_1\_0.mics, v3\_1\_1.mics and v3\_1\_patch\_1.mics
  - The following variable was renamed from rec\_ord\_s to records
  - The following variable was renamed from sec\_ond\_s to seconds
  - The following variable was renamed from end\_poi\_ntm\_ac to endpoint\_mac
  - The following variable was renamed from psn\_nam\_e to psn\_name
  - The following variable was renamed from rea\_uth\_typ\_e to reauth\_type
  - The following variable was renamed from dis\_con\_nec\_tty\_pe to disconnect\_type
  - The following variable was renamed from end\_poi\_nti\_p to endpoint\_ip
- The following url have been repaired in v3\_1\_0.mics.session\_disconnect, v3\_1\_1.mics.session\_disconnect and v3\_1\_patch\_1.mics.session\_disconnect
  - From /admin/API/mnt/CoA/Disconnect>/{PSN\_NAME}/{MAC}/{DISCONNECT\_TYPE}/{NAS\_IPV4}/{ENDPOINT\_IP} to /admin/API/mnt/CoA/Disconnect/{PSN\_NAME}/{MAC}/{DISCONNECT\_TYPE}/{NAS\_IPV4}/{ENDPOINT\_IP}

#### 2.3.4 2.0.5 - 2022-12-10

##### Fixed

- Repaired the request body of the network\_access\_network\_conditions.create\_network\_access\_network\_condition request 3.1\_patch\_1 and 3.1.1
- Repaired the request body of the network\_access\_network\_conditions.update\_network\_access\_network\_condition\_by\_id request 3.1\_patch\_1 and 3.1.1

### 2.3.5 2.0.4 - 2022-07-11

#### Fixed

- Update `check_type` to pass an instance of a list.

### 2.3.6 2.0.3 - 2022-06-07

#### Changed

- Default ISE `DEFAULT_VERSION` to `3.1_Patch_1`
- Update documentation to use ISE `v3.1_Patch_1`

### 2.3.7 2.0.2 - 2022-05-02

#### Fixed

- Update pagination to capture and ignore 500 Internal server error when they attempt to `get_next_page`. Previous version only captured and ignored 404 Not Found and 400 Bad Request.

### 2.3.8 2.0.1 - 2022-03-24

#### Added

- Add `DownloadResponse` class that wraps the `urllib3.response.HTTPResponse`.
- Add `filename` optional parameter to the following functions:
  - `ciscoisesdk.api.v3_1_0.certificates.Certificates.export_csr`
  - `ciscoisesdk.api.v3_1_0.certificates.Certificates.export_system_certificate`
  - `ciscoisesdk.api.v3_1_0.certificates.Certificates.export_trusted_certificate`
  - `ciscoisesdk.api.v3_1_0.endpoint_certificate.EndpointCertificate.create_endpoint_certificate`
  - `ciscoisesdk.api.v3_1_0.endpoint_certificate.EndpointCertificate.create`
  - `ciscoisesdk.api.v3_1_0.support_bundle_download.SupportBundleDownload.download_support_bundle`
  - `ciscoisesdk.api.v3_1_0.support_bundle_download.SupportBundleDownload.download`
  - `ciscoisesdk.api.v3_1_1.certificates.Certificates.export_csr`
  - `ciscoisesdk.api.v3_1_1.certificates.Certificates.export_system_certificate`
  - `ciscoisesdk.api.v3_1_1.certificates.Certificates.export_trusted_certificate`
  - `ciscoisesdk.api.v3_1_1.endpoint_certificate.EndpointCertificate.create_endpoint_certificate`
  - `ciscoisesdk.api.v3_1_1.endpoint_certificate.EndpointCertificate.create`
  - `ciscoisesdk.api.v3_1_1.support_bundle_download.SupportBundleDownload.download_support_bundle`
  - `ciscoisesdk.api.v3_1_1.support_bundle_download.SupportBundleDownload.download`

## Changed

- Change the response of the following funtions from `urllib3.response.HTTPResponse` to a wrapper `DownloadResponse`.
  - `ciscoisesdk.api.v3_1_0.certificates.Certificates.export_csr`
  - `ciscoisesdk.api.v3_1_0.certificates.Certificates.export_system_certificate`
  - `ciscoisesdk.api.v3_1_0.certificates.Certificates.export_trusted_certificate`
  - `ciscoisesdk.api.v3_1_0.endpoint_certificate.EndpointCertificate.create_endpoint_certificate`
  - `ciscoisesdk.api.v3_1_0.endpoint_certificate.EndpointCertificate.create`
  - `ciscoisesdk.api.v3_1_0.support_bundle_download.SupportBundleDownload.download_support_bundle`
  - `ciscoisesdk.api.v3_1_0.support_bundle_download.SupportBundleDownload.download`
  - `ciscoisesdk.api.v3_1_1.certificates.Certificates.export_csr`
  - `ciscoisesdk.api.v3_1_1.certificates.Certificates.export_system_certificate`
  - `ciscoisesdk.api.v3_1_1.certificates.Certificates.export_trusted_certificate`
  - `ciscoisesdk.api.v3_1_1.endpoint_certificate.EndpointCertificate.create_endpoint_certificate`
  - `ciscoisesdk.api.v3_1_1.endpoint_certificate.EndpointCertificate.create`
  - `ciscoisesdk.api.v3_1_1.support_bundle_download.SupportBundleDownload.download_support_bundle`
  - `ciscoisesdk.api.v3_1_1.support_bundle_download.SupportBundleDownload.download`

### 2.3.9 2.0.0 - 2022-03-24

#### Removed

- Removed `access_token` property of `IdentityServicesEngineAPI` and `RestSession`.
- Drop ISE version 3.0.0 support.

### 2.3.10 1.5.1 - 2022-02-25

#### 2.3.11 Changed

- Update docstring documentation of modules and functions.

### 2.3.12 1.5.0 - 2022-02-23

#### Changed

- Marked `access_token` property to be removed in `IdentityServicesEngineAPI` and `RestSession`.
- Changed the way of notifying Deprecation of version 3.0.0 of ISE from print to warning.
- Incremented `IdentityServicesEngineAPI` and `RestSession` constructor parameter count.
- Changed access method an imports used for environment variables and default values in `api/init.py`.

- Changed `IdentityServicesEngineAPI`'s inner properties, getters, and setters to handle only the class itself.
- `RestSession` to request for a refreshed CSRF token if `uses_csrf_token` is enabled.
- Replaced the name of headers checked for ERS methods from “X-CSRF-TOKEN” to “X-CSRF-Token”.
- Changed `ApiError` message when `status_code` is 401 or 403 to include reference to `additional_data` property.

## Added

- Support for “CSRF Check for Enhanced Security” for the ISE ERS API (#20).
- Added `status_code` to `RestResponse` (#22).
- Support to have `additional_data` for `ApiError` when HTTP status code are 401 or 403 (#21). The `additional_data` returns a string with:
  - Authorization header used.
  - X-CSRF-Token header used if it was found.
  - Username used.
  - Password used.
- Support for managing changes of the `IdentityServicesEngineAPI`'s properties (#21):
  - `initialize_authentication` function.
  - `initialize_sessions` function.
  - `initialize_api_wrappers` function.
  - `reinitialize` function.
  - `authentication` getter function.
  - `perform_initialize` getter function.
  - `username` getter and setter functions.
  - `is_password` utility function.
  - `is_encoded_auth` utility function.
  - `uses_api_gateway` getter and setter functions.
  - `base_url` getter and setter functions.
  - `ui_base_url` getter and setter functions.
  - `ers_base_url` getter and setter functions.
  - `mnt_base_url` getter and setter functions.
  - `px_grid_base_url` getter and setter functions.
  - `single_request_timeout` getter and setter functions.
  - `wait_on_rate_limit` getter and setter functions.
  - `verify` getter and setter functions.
  - `version` getter and setter functions.
  - `debug` getter and setter functions.



- `uses_csrf_token` getter and setter functions.
  - `object_factory` getter and setter functions.
  - `validator` getter and setter functions.
  - `session` getter function.
  - `session_ui` getter function.
  - `session_ers` getter function.
  - `session_mnt` getter function.
  - `session_px_grid` getter function.
  - `username` getter function.
  - `change_password` utility setter function.
  - `change_encoded_auth` utility setter function.
- Added warnings for changes of the `IdentityServicesEngineAPI`'s properties.
  - Added a test `importsdk` to verify the behavior between environment variables and module import order.
  - New `perform_initialize` parameter for `IdentityServicesEngineAPI` constructor.
  - New `uses_csrf_token` parameter for `IdentityServicesEngineAPI` constructor.
  - New `get_csrf_token` function for `IdentityServicesEngineAPI`.
  - New `uses_csrf_token` and `get_csrf_token` parameters for `RestSession` constructor.
  - New `DEFAULT_USES_CSRF_TOKEN` value in `config.py`.
  - New `IDENTITY_SERVICES_ENGINE_USES_CSRF_TOKEN` environment variable in `environment.py`.
  - New `initialize_authentication` function for `IdentityServicesEngineAPI`.
  - New `initialize_sessions` function for `IdentityServicesEngineAPI`.
  - New `initialize_api_wrappers` function for `IdentityServicesEngineAPI`.
  - New `reinitialize` function for `IdentityServicesEngineAPI`.
  - New `is_password` function for `IdentityServicesEngineAPI`.
  - New `is_encoded_auth` function for `IdentityServicesEngineAPI`.
  - New `change_password` function for `IdentityServicesEngineAPI`.
  - New `change_encoded_auth` function for `IdentityServicesEngineAPI`.
  - New `debug` setter function for `RestSession`.
  - New `uses_csrf_token` getter and setter functions for `RestSession`.
  - New `additional_data` property in `ApiError`.

#### Fixed

- The process that gets the environment variables now can access the variables set after the module is imported, and not only before it.
- Fixed the docstring tables of the API modules.

### 2.3.13 1.4.2 - 2022-02-18

#### Fixed

- Update pagination to capture and ignore 400 Bad Request in generators when they attempt to `get_next_page`. Previous version only captured and ignored 404 Not Found.

### 2.3.14 1.4.1 - 2022-01-20

#### Changed

- Update module inner documentation.
- Downgrade requirements file to use poetry versions.

### 2.3.15 1.4.0 - 2022-01-19

#### Changed

- Update requirements

#### Fixed

- Update pagination, `get_next_page` inner logic and location from `utils` to `pagination`.

### 2.3.16 1.3.1 - 2021-12-13

#### Changed

- Fixes `utils.get_next_page` generator starting default page

### 2.3.17 1.3.0 - 2021-12-13

#### Added

- Adds licensing module
- Adds `node_services` module
- Adds patching module
- Adds proxy module
- Adds telemetry module

- Adds certificates.generate\_self\_signed\_certificate function
- Adds node\_deployment.make\_primary function
- Adds node\_deployment.make\_standalone function
- Adds node\_deployment.sync\_node function
- Adds node\_group.add\_node function
- Adds node\_group.get\_nodes function
- Adds node\_group.remove\_node function
- Adds pan\_ha.update\_pan\_ha function

### Removed

- Removes pan\_ha.disable\_pan\_ha function
- Removes pan\_ha.enable\_pan\_ha function
- Removes replication\_status module
- Removes sync\_ise\_node module

## 2.3.18 1.2.0 - 2021-11-24

### Added

- Adds notice for 3.0.0 (soon to be deprecated)
- Adds Trust Sec endpoints to ISE version 3.1.0

### Changed

- Fixes paths for Policy endpoints (get\_device\_admin\_profiles, get\_network\_access\_profiles)
- Updates ISE version 3.1.0 as separate version

### Removed

- Removes link of 3.1.0 modules to 3.0.0 version

## 2.3.19 1.1.0 - 2021-10-22

### Added

- Link of 3.1.0 modules to 3.0.0 version

## Changed

- Default ISE DEFAULT\_VERSION to 3.1.0
- Update documentation to use ISE v3.1.0

## 2.3.20 1.0.1 - 2021-09-14

## Changed

- Disabled warnings of urllib3 if verify is False

## 2.3.21 1.0.0 - 2021-07-21

## Added

- Missing parameters for functions
- `get_version` functions for ERS wrapper classes.
- Missing functions:
  - `AncPolicy.get_anc_policy_generator`
  - `BackupAndRestore.update_scheduled_config_backup`
  - `CertificateTemplate.get_certificate_template_generator`
  - `DeviceAdministrationAuthenticationRules.reset_hit_counts_device_admin_authentication_rules`
  - `DeviceAdministrationAuthorizationExceptionRules.reset_hit_counts_device_admin_local_exceptions`
  - `DeviceAdministrationAuthorizationGlobalExceptionRules.reset_hit_counts_device_admin_global_exceptions`
  - `DeviceAdministrationAuthorizationRules.reset_hit_counts_device_admin_authorization_rules`
  - `DeviceAdministrationPolicySet.reset_hit_counts_device_admin_policy_sets`
  - `MyDevicePortal.delete_my_device_portal_by_id`
  - `NetworkAccessAuthenticationRules.reset_hit_counts_network_access_authentication_rules`
  - `NetworkAccessAuthorizationExceptionRules.reset_hit_counts_network_access_local_exceptions`
  - `NetworkAccessAuthorizationRules.reset_hit_counts_network_access_authorization_rules`
  - `NetworkAccessPolicySet.reset_hit_counts_network_access_policy_sets`
  - `SessionServiceNode.get_session_service_node_generator`
  - `SupportBundleStatus.get_support_bundle_status_generator`
  - `TacacsCommandSets.get_tacacs_command_sets_generator`
- Aliases for functions (eg. `get_all`, `get_by_id`, `get_by_name`, `update_by_id`, `delete_by_id`, `create`, and others)

## Changed

- Rename module names

- deployment to pull\_deployment\_info
- threat to clear\_threats\_and\_vulnerabilities
- endpoint\_group to endpoint\_identity\_group
- identity\_group to identity\_groups
- identity\_store\_sequence to identity\_sequence
- node to node\_details
- endpoint\_cert to endpoint\_certificate
- guest\_smtp\_notifications to guest\_smtp\_notification\_configuration
- session\_service\_node to psn\_node\_details\_with\_radius\_service
- sg\_acl to security\_groups\_acls
- sg\_mapping\_group to ip\_to\_sgt\_mapping\_group
- sg\_mapping to ip\_to\_sgt\_mapping
- sgt\_vn\_vlan to security\_group\_to\_virtual\_network
- sgt to security\_groups
- support\_bundle to support\_bundle\_download, support\_bundle\_status & support\_bundle\_trigger\_configuration
- version\_ to version\_and\_patch

- Rename function names

- (BackupAndRestore) schedule\_config\_backup to create\_scheduled\_config\_backup
- (Certificates) get\_csr to get\_csrs
- (Certificates) get\_csr\_generator to get\_csrs\_generator
- (Certificates) renew\_certificate to renew\_certificates
- (Certificates) export\_system\_cert to export\_system\_certificate
- (Certificates) export\_trusted\_cert to export\_trusted\_certificate
- (DeviceAdministrationAuthenticationRules) create\_device\_admin\_authentication\_rules to create\_device\_admin\_authentication\_rule
- (DeviceAdministrationAuthorizationExceptionRules) delete\_device\_admin\_policyset\_global\_exception to delete\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id
- (DeviceAdministrationAuthorizationExceptionRules) get\_device\_admin\_policy\_set\_global\_exception to get\_device\_admin\_policy\_set\_global\_exception\_rules
- (DeviceAdministrationAuthorizationExceptionRules) get\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id to get\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id
- (DeviceAdministrationAuthorizationExceptionRules) update\_device\_admin\_policyset\_global\_exception to update\_device\_admin\_policy\_set\_global\_exception\_by\_rule\_id
- (DeviceAdministrationDictionaryAttributesList) get\_device\_admin\_dictionaries\_policyset to get\_device\_admin\_dictionaries\_policy\_set

- (GuestType) update\_guesttype\_by\_id to update\_guest\_type\_by\_id
- (IdentityStoreSequence) create\_identity\_store\_sequence to  
create\_identity\_sequence
- (IdentityStoreSequence) delete\_identity\_store\_sequence\_by\_id to  
delete\_identity\_sequence\_by\_id
- (IdentityStoreSequence) get\_identity\_store\_sequence to get\_identity\_sequence
- (IdentityStoreSequence) get\_identity\_store\_sequence\_by\_id to  
get\_identity\_sequence\_by\_id
- (IdentityStoreSequence) get\_identity\_store\_sequence\_by\_name to  
get\_identity\_sequence\_by\_name
- (IdentityStoreSequence) get\_identity\_store\_sequence\_generator to  
get\_identity\_sequence\_generator
- (IdentityStoreSequence) update\_identity\_store\_sequence\_by\_id to  
update\_identity\_sequence\_by\_id
- (InternalUser) internaluser\_by\_id to get\_internal\_user\_by\_id
- (NetworkAccessAuthorizationGlobalExceptionRules) create\_network\_access\_global\_exception\_rule  
to create\_network\_access\_policy\_set\_global\_exception\_rule
- (NetworkAccessAuthorizationGlobalExceptionRules) delete\_network\_access\_global\_exception\_rule\_by\_id  
to delete\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id
- (NetworkAccessAuthorizationGlobalExceptionRules) get\_network\_access\_global\_exception\_rule\_by\_id  
to get\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id
- (NetworkAccessAuthorizationGlobalExceptionRules) get\_network\_access\_global\_exception\_rules  
to get\_network\_access\_policy\_set\_global\_exception\_rules
- (NetworkAccessAuthorizationGlobalExceptionRules) update\_network\_access\_global\_exception\_rule\_by\_id  
to update\_network\_access\_policy\_set\_global\_exception\_rule\_by\_id
- (DeviceAdministrationConditions) get\_device\_admin\_conditions\_for\_authentication\_rule  
to get\_device\_admin\_conditions\_for\_authentication\_rules
- (DeviceAdministrationConditions) get\_device\_admin\_conditions\_for\_authorization\_rule  
to get\_device\_admin\_conditions\_for\_authorization\_rules
- (DeviceAdministrationConditions) get\_device\_admin\_conditions\_for\_policy\_set to  
get\_device\_admin\_conditions\_for\_policy\_sets
- (NetworkAccessConditions) get\_network\_access\_conditions\_for\_authorization\_rule  
to get\_network\_access\_conditions\_for\_authorization\_rules
- (NetworkAccessConditions) get\_network\_access\_conditions\_for\_policy\_set to  
get\_network\_access\_conditions\_for\_policy\_sets
- (NetworkAccessDictionary) delete\_network\_access\_dictionaries\_by\_name to  
delete\_network\_access\_dictionary\_by\_name
- (NetworkAccessDictionary) update\_network\_access\_dictionaries\_by\_name to  
update\_network\_access\_dictionary\_by\_name
- (NetworkAccessDictionary) create\_network\_access\_dictionary\_attribute\_for\_dictionary  
to create\_network\_access\_dictionary\_attribute
- (NetworkAccessDictionaryAttributesList) get\_network\_access\_dictionaries\_policyset  
to get\_network\_access\_dictionaries\_policy\_set

- (Node) `get_node_by_id` to `get_node_detail_by_id`
- (Node) `get_node_by_name` to `get_node_detail_by_name`
- (Node) `get_nodes` to `get_node_details`
- (PxGridSettings) `autoapprove_px_grid_node` to `autoapprove_px_grid_settings`
- (Repository) `delete_repository_by_name` to `delete_repository`
- (Repository) `get_repository_by_name` to `get_repository`
- (Repository) `update_repository_by_name` to `update_repository`

## Removed

- Removed module
  - `service`
- Removed unknown functions for the API
  - `identity_group.delete_identity_group_by_id`





## GENERAL INFORMATION ABOUT THE IDENTITY SERVICES ENGINE SERVICE

### 3.1 What is Identity Services Engine?

“A better way to control your network. Cisco Identity Services Engine is the network management and command center for Cisco Identity Services Engine, your intent-based network for the enterprise.”

Visit the official [Identity Services Engine](#) website for more information and to create a [free account](#)!

### 3.2 Identity Services Engine for Developers

Leveraging the Identity Services Engine APIs and developing on top of the Identity Services Engine cloud is easy. Signup for a [free account](#) and then head over to the [Identity Services Engine for Developers](#) website to learn more.

*Copyright (c) 2021 Cisco and/or its affiliates.*



## PYTHON MODULE INDEX

### C

`ciscoisesdk.config`, [12](#)



## Symbols

`__init__()` (*IdentityServicesEngineAPI* method), 28

## A

`access_secret()` (*Consumer* method), 164, 860, 1574

`AccessTokenError`, 2155

`AciBindings` (class in *ciscois-esdk.api.v3\_1\_0.aci\_bindings*), 33

`AciBindings` (class in *ciscois-esdk.api.v3\_1\_1.aci\_bindings*), 726

`AciBindings` (class in *ciscois-esdk.api.v3\_1\_patch\_1.aci\_bindings*), 1440

`AciSettings` (class in *ciscois-esdk.api.v3\_1\_0.aci\_settings*), 37

`AciSettings` (class in *ciscois-esdk.api.v3\_1\_1.aci\_settings*), 729

`AciSettings` (class in *ciscois-esdk.api.v3\_1\_patch\_1.aci\_settings*), 1443

`activate_account()` (*Consumer* method), 163, 859, 1573

`ActiveDirectory` (class in *ciscois-esdk.api.v3\_1\_0.active\_directory*), 49

`ActiveDirectory` (class in *ciscois-esdk.api.v3\_1\_1.active\_directory*), 741

`ActiveDirectory` (class in *ciscois-esdk.api.v3\_1\_patch\_1.active\_directory*), 1455

`add_api()` (*CustomCaller* method), 32

`add_node()` (*NodeGroup* method), 1161, 1875

`additional_data` (*ApiError* attribute), 2156

`AdminUser` (class in *ciscois-esdk.api.v3\_1\_0.admin\_user*), 66

`AdminUser` (class in *ciscois-esdk.api.v3\_1\_1.admin\_user*), 758

`AdminUser` (class in *ciscois-esdk.api.v3\_1\_patch\_1.admin\_user*), 1472

`AllowedProtocols` (class in *ciscois-esdk.api.v3\_1\_0.allowed\_protocols*), 70

`AllowedProtocols` (class in *ciscois-esdk.api.v3\_1\_1.allowed\_protocols*), 762

`AllowedProtocols` (class in *ciscois-esdk.api.v3\_1\_patch\_1.allowed\_protocols*), 1476

`AncEndpoint` (class in *ciscois-esdk.api.v3\_1\_0.anc\_endpoint*), 42

`AncEndpoint` (class in *ciscois-esdk.api.v3\_1\_1.anc\_endpoint*), 734

`AncEndpoint` (class in *ciscois-esdk.api.v3\_1\_patch\_1.anc\_endpoint*), 1448

`AncPolicy` (class in *ciscois-esdk.api.v3\_1\_0.anc\_policy*), 87

`AncPolicy` (class in *ciscois-esdk.api.v3\_1\_1.anc\_policy*), 779

`AncPolicy` (class in *ciscois-esdk.api.v3\_1\_patch\_1.anc\_policy*), 1493

`ApiError`, 2155

`apply()` (*AncEndpoint* method), 47, 739, 1453

`apply_anc_endpoint()` (*AncEndpoint* method), 46, 738, 1452

`approve()` (*PxGridNode* method), 701, 1414, 2128

`approve_by_id()` (*GuestUser* method), 276, 972, 1686

`approve_guest_user_by_id()` (*GuestUser* method), 276, 972, 1686

`approve_px_grid_node()` (*PxGridNode* method), 701, 1413, 2127

`Authentication` (class in *ciscois-esdk.api.authentication*), 32

`authentication()` (*IdentityServicesEngineAPI* property), 30

`authentication_api()` (*Authentication* method), 32

`authorization()` (*Provider* method), 480, 1193, 1907

`AuthorizationProfile` (class in *ciscois-esdk.api.v3\_1\_0.authorization\_profile*), 95

`AuthorizationProfile` (class in *ciscois-esdk.api.v3\_1\_1.authorization\_profile*), 787

`AuthorizationProfile` (class in *ciscois-esdk.api.v3\_1\_patch\_1.authorization\_profile*), 1501

`autoapprove()` (*PxGridSettings* method), 491, 1204,

1918  
 autoapprove\_px\_grid\_settings() (*PxGrid-Settings method*), 491, 1204, 1918

## B

BackupAndRestore (class in *ciscoisesdk.api.v3\_1\_0.backup\_and\_restore*), 120  
 BackupAndRestore (class in *ciscoisesdk.api.v3\_1\_1.backup\_and\_restore*), 812  
 BackupAndRestore (class in *ciscoisesdk.api.v3\_1\_patch\_1.backup\_and\_restore*), 1526  
 base\_url() (*Authentication property*), 32  
 base\_url() (*IdentityServicesEngineAPI property*), 31  
 bind\_csr() (*Certificates method*), 142, 834, 1548  
 bulk\_create\_sg\_vn\_mappings() (*SgVnMapping method*), 707, 1420, 2134  
 bulk\_create\_virtual\_networks() (*VirtualNetwork method*), 715, 1429, 2143  
 bulk\_create\_vn\_vlan\_mappings() (*VnVlanMapping method*), 722, 1436, 2150  
 bulk\_delete\_sg\_vn\_mappings() (*SgVnMapping method*), 708, 1421, 2135  
 bulk\_delete\_virtual\_networks() (*VirtualNetwork method*), 716, 1430, 2144  
 bulk\_delete\_vn\_vlan\_mappings() (*VnVlanMapping method*), 723, 1436, 2150  
 bulk\_request() (*AncEndpoint method*), 48, 740, 1454  
 bulk\_request() (*AncPolicy method*), 95, 787, 1501  
 bulk\_request() (*EgressMatrixCell method*), 225, 921, 1635  
 bulk\_request() (*Endpoint method*), 690, 1401, 2115  
 bulk\_request() (*GuestUser method*), 290, 986, 1700  
 bulk\_request() (*IpToSgtMapping method*), 313, 1009, 1723  
 bulk\_request() (*IpToSgtMappingGroup method*), 322, 1018, 1732  
 bulk\_request() (*NetworkDevice method*), 443, 1145, 1859  
 bulk\_request() (*SecurityGroups method*), 553, 1265, 1979  
 bulk\_request() (*SecurityGroupsAcls method*), 561, 1273, 1987  
 bulk\_request() (*SecurityGroupToVirtualNetwork method*), 545, 1257, 1971  
 bulk\_request() (*SxpConnections method*), 524, 1236, 1950  
 bulk\_request() (*SxpLocalBindings method*), 532, 1244, 1958  
 bulk\_request() (*SxpVpns method*), 538, 1250, 1964  
 bulk\_request\_create() (*SgVnMapping method*), 708, 1420, 2134

bulk\_request\_create() (*VirtualNetwork method*), 716, 1430, 2144  
 bulk\_request\_create() (*VnVlanMapping method*), 723, 1436, 2150  
 bulk\_request\_delete() (*SgVnMapping method*), 709, 1421, 2135  
 bulk\_request\_delete() (*VirtualNetwork method*), 716, 1430, 2144  
 bulk\_request\_delete() (*VnVlanMapping method*), 723, 1437, 2151  
 bulk\_request\_for\_anc\_endpoint() (*AncEndpoint method*), 47, 739, 1453  
 bulk\_request\_for\_anc\_policy() (*AncPolicy method*), 94, 786, 1500  
 bulk\_request\_for\_egress\_matrix\_cell() (*EgressMatrixCell method*), 224, 920, 1634  
 bulk\_request\_for\_endpoint() (*Endpoint method*), 690, 1401, 2115  
 bulk\_request\_for\_guest\_user() (*GuestUser method*), 290, 986, 1700  
 bulk\_request\_for\_ip\_to\_sgt\_mapping() (*IpToSgtMapping method*), 312, 1008, 1722  
 bulk\_request\_for\_ip\_to\_sgt\_mapping\_group() (*IpToSgtMappingGroup method*), 321, 1017, 1731  
 bulk\_request\_for\_network\_device() (*NetworkDevice method*), 442, 1144, 1858  
 bulk\_request\_for\_security\_group() (*SecurityGroups method*), 552, 1264, 1978  
 bulk\_request\_for\_security\_groups\_acl() (*SecurityGroupsAcls method*), 560, 1272, 1986  
 bulk\_request\_for\_security\_groups\_to\_vn\_to\_vlan() (*SecurityGroupToVirtualNetwork method*), 545, 1257, 1971  
 bulk\_request\_for\_sxp\_connections() (*SxpConnections method*), 523, 1236, 1950  
 bulk\_request\_for\_sxp\_local\_bindings() (*SxpLocalBindings method*), 531, 1243, 1957  
 bulk\_request\_for\_sxp\_vpns() (*SxpVpns method*), 537, 1249, 1963  
 bulk\_request\_update() (*SgVnMapping method*), 709, 1422, 2136  
 bulk\_request\_update() (*VirtualNetwork method*), 717, 1431, 2145  
 bulk\_request\_update() (*VnVlanMapping method*), 724, 1438, 2152  
 bulk\_update\_sg\_vn\_mappings() (*SgVnMapping method*), 709, 1421, 2135  
 bulk\_update\_virtual\_networks() (*VirtualNetwork method*), 717, 1430, 2144  
 bulk\_update\_vn\_vlan\_mappings() (*VnVlanMapping method*), 723, 1437, 2151  
 ByodPortal (class in *ciscoisesdk.api.v3\_1\_0.byod\_portal*), 106

ByodPortal (class in ciscoisesdk.api.v3\_1\_1.byod\_portal), 798  
 ByodPortal (class in ciscoisesdk.api.v3\_1\_patch\_1.byod\_portal), 1512

## C

call\_api() (CustomCaller method), 32  
 cancel() (BackupAndRestore method), 121, 813, 1527  
 cancel\_backup() (BackupAndRestore method), 120, 812, 1526  
 CertificateProfile (class in ciscoisesdk.api.v3\_1\_0.certificate\_profile), 125  
 CertificateProfile (class in ciscoisesdk.api.v3\_1\_1.certificate\_profile), 817  
 CertificateProfile (class in ciscoisesdk.api.v3\_1\_patch\_1.certificate\_profile), 1531  
 Certificates (class in ciscoisesdk.api.v3\_1\_0.certificates), 135  
 Certificates (class in ciscoisesdk.api.v3\_1\_1.certificates), 827  
 Certificates (class in ciscoisesdk.api.v3\_1\_patch\_1.certificates), 1541  
 CertificateTemplate (class in ciscoisesdk.api.v3\_1\_0.certificate\_template), 132  
 CertificateTemplate (class in ciscoisesdk.api.v3\_1\_1.certificate\_template), 824  
 CertificateTemplate (class in ciscoisesdk.api.v3\_1\_patch\_1.certificate\_template), 1538  
 change\_encoded\_auth() (IdentityServicesEngineAPI method), 31  
 change\_password() (IdentityServicesEngineAPI method), 30  
 change\_sponsor\_password() (GuestUser method), 277, 973, 1687  
 ciscoisesdk.config (module), 12  
 ciscoisesdkException, 2155  
 clear() (AncEndpoint method), 44, 736, 1450  
 clear() (ClearThreatsAndVulnerabilities method), 161, 857, 1571  
 clear() (EgressMatrixCell method), 218, 914, 1628  
 clear\_all\_matrix\_cells() (EgressMatrixCell method), 217, 913, 1627  
 clear\_anc\_endpoint() (AncEndpoint method), 43, 735, 1449  
 clear\_threats\_and\_vulnerabilities() (ClearThreatsAndVulnerabilities method), 160, 856, 1570  
 ClearThreatsAndVulnerabilities (class in ciscoisesdk.api.v3\_1\_0.clear\_threats\_and\_vulnerabilities), 160

ClearThreatsAndVulnerabilities (class in ciscoisesdk.api.v3\_1\_1.clear\_threats\_and\_vulnerabilities), 856  
 ClearThreatsAndVulnerabilities (class in ciscoisesdk.api.v3\_1\_patch\_1.clear\_threats\_and\_vulnerabilities), 1570  
 clone() (EgressMatrixCell method), 219, 915, 1629  
 clone\_matrix\_cell() (EgressMatrixCell method), 218, 914, 1628  
 config() (BackupAndRestore method), 120, 812, 1526  
 config\_backup() (BackupAndRestore method), 120, 812, 1526  
 configure\_smart\_state() (Licensing method), 1043, 1757  
 Consumer (class in ciscoisesdk.api.v3\_1\_0.consumer), 162  
 Consumer (class in ciscoisesdk.api.v3\_1\_1.consumer), 858  
 Consumer (class in ciscoisesdk.api.v3\_1\_patch\_1.consumer), 1572  
 content() (RestResponse property), 2155  
 create() (ActiveDirectory method), 65, 757, 1471  
 create() (AllowedProtocols method), 86, 778, 1492  
 create() (AncPolicy method), 93, 785, 1499  
 create() (AuthorizationProfile method), 105, 797, 1511  
 create() (BackupAndRestore method), 125, 817, 1531  
 create() (ByodPortal method), 119, 811, 1525  
 create() (CertificateProfile method), 131, 823, 1537  
 create() (Consumer method), 162, 858, 1572  
 create() (DeviceAdministrationAuthenticationRules method), 166, 862, 1576  
 create() (DeviceAdministrationAuthorizationExceptionRules method), 170, 866, 1580  
 create() (DeviceAdministrationAuthorizationGlobalExceptionRules method), 175, 871, 1585  
 create() (DeviceAdministrationAuthorizationRules method), 179, 875, 1589  
 create() (DeviceAdministrationConditions method), 185, 881, 1595  
 create() (DeviceAdministrationNetworkConditions method), 197, 893, 1607  
 create() (DeviceAdministrationPolicySet method), 201, 897, 1611  
 create() (DeviceAdministrationTimeDateConditions method), 208, 904, 1618  
 create() (DownloadableAcl method), 216, 912, 1626  
 create() (EgressMatrixCell method), 224, 920, 1634  
 create() (Endpoint method), 689, 1400, 2114  
 create() (EndpointCertificate method), 228, 924, 1638  
 create() (EndpointIdentityGroup method), 234, 930,

- 1644
- `create()` (*ExternalRadiusServer* method), 242, 938, 1652
- `create()` (*FilterPolicy* method), 247, 943, 1657
- `create()` (*GuestSntpNotificationConfiguration* method), 258, 954, 1668
- `create()` (*GuestSsid* method), 264, 960, 1674
- `create()` (*GuestType* method), 273, 969, 1683
- `create()` (*GuestUser* method), 289, 985, 1699
- `create()` (*HotspotPortal* method), 304, 1000, 1714
- `create()` (*IdentityGroups* method), 327, 1023, 1737
- `create()` (*IdentitySequence* method), 333, 1029, 1743
- `create()` (*InternalUser* method), 343, 1039, 1753
- `create()` (*IpToSgtMapping* method), 312, 1008, 1722
- `create()` (*IpToSgtMappingGroup* method), 320, 1016, 1730
- `create()` (*MyDevicePortal* method), 369, 1070, 1784
- `create()` (*NbarApp* method), 693, 1404, 2118
- `create()` (*NetworkAccessAuthenticationRules* method), 376, 1077, 1791
- `create()` (*NetworkAccessAuthorizationExceptionRules* method), 380, 1081, 1795
- `create()` (*NetworkAccessAuthorizationGlobalExceptionRules* method), 384, 1085, 1799
- `create()` (*NetworkAccessAuthorizationRules* method), 389, 1090, 1804
- `create()` (*NetworkAccessConditions* method), 394, 1095, 1809
- `create()` (*NetworkAccessDictionary* method), 403, 1104, 1818
- `create()` (*NetworkAccessDictionaryAttribute* method), 407, 1108, 1822
- `create()` (*NetworkAccessNetworkConditions* method), 414, 1115, 1829
- `create()` (*NetworkAccessPolicySet* method), 418, 1120, 1834
- `create()` (*NetworkAccessTimeDateConditions* method), 425, 1127, 1841
- `create()` (*NetworkDevice* method), 442, 1144, 1858
- `create()` (*NetworkDeviceGroup* method), 449, 1151, 1865
- `create()` (*PortalTheme* method), 473, 1186, 1900
- `create()` (*RadiusServerSequence* method), 500, 1213, 1927
- `create()` (*Repository* method), 511, 1224, 1938
- `create()` (*RestidStore* method), 509, 1222, 1936
- `create()` (*SecurityGroups* method), 552, 1264, 1978
- `create()` (*SecurityGroupsAcls* method), 560, 1272, 1986
- `create()` (*SecurityGroupToVirtualNetwork* method), 544, 1256, 1970
- `create()` (*SelfRegisteredPortal* method), 587, 1299, 2013
- `create()` (*SgVnMapping* method), 707, 1420, 2134
- `create()` (*SponsoredGuestPortal* method), 632, 1344, 2058
- `create()` (*SponsorGroup* method), 599, 1311, 2025
- `create()` (*SponsorPortal* method), 616, 1328, 2042
- `create()` (*SupportBundleTriggerConfiguration* method), 640, 1352, 2066
- `create()` (*SxpConnections* method), 523, 1235, 1949
- `create()` (*SxpLocalBindings* method), 531, 1243, 1957
- `create()` (*SxpVpns* method), 537, 1249, 1963
- `create()` (*SystemCertificate* method), 645, 1356, 2070
- `create()` (*TacacsCommandSets* method), 651, 1362, 2076
- `create()` (*TacacsExternalServers* method), 657, 1368, 2082
- `create()` (*TacacsProfile* method), 663, 1374, 2088
- `create()` (*TacacsServerSequence* method), 670, 1381, 2095
- `create()` (*VirtualNetwork* method), 715, 1429, 2143
- `create()` (*VnVlanMapping* method), 722, 1436, 2150
- `create_account()` (*Consumer* method), 162, 858, 1572
- `create_active_directory()` (*ActiveDirectory* method), 64, 756, 1470
- `create_allowed_protocol()` (*AllowedProtocols* method), 84, 776, 1490
- `create_anc_policy()` (*AncPolicy* method), 93, 785, 1499
- `create_authorization_profile()` (*AuthorizationProfile* method), 104, 796, 1510
- `create_byod_portal()` (*ByodPortal* method), 118, 810, 1524
- `create_certificate_profile()` (*CertificateProfile* method), 130, 822, 1536
- `create_device_admin_authentication_rule()` (*DeviceAdministrationAuthenticationRules* method), 165, 861, 1575
- `create_device_admin_authorization_rule()` (*DeviceAdministrationAuthorizationRules* method), 178, 874, 1588
- `create_device_admin_condition()` (*DeviceAdministrationConditions* method), 183, 879, 1593
- `create_device_admin_local_exception_rule()` (*DeviceAdministrationAuthorizationExceptionRules* method), 170, 866, 1580
- `create_device_admin_network_condition()` (*DeviceAdministrationNetworkConditions* method), 196, 892, 1606
- `create_device_admin_policy_set()` (*DeviceAdministrationPolicySet* method), 200, 896, 1610
- `create_device_admin_policy_set_global_exception()` (*DeviceAdministrationAuthorizationGlobalExceptionRules* method), 174, 870, 1584



`create_device_admin_time_condition()` (*DeviceAdministrationTimeDateConditions method*), 206, 902, 1616  
`create_downloadable_acl()` (*DownloadableAcl method*), 215, 911, 1625  
`create_egress_matrix_cell()` (*EgressMatrix-Cell method*), 223, 919, 1633  
`create_endpoint()` (*Endpoint method*), 688, 1399, 2113  
`create_endpoint_certificate()` (*EndpointCertificate method*), 227, 923, 1637  
`create_endpoint_group()` (*EndpointIdentity-Group method*), 234, 930, 1644  
`create_external_radius_server()` (*External-RadiusServer method*), 241, 937, 1651  
`create_filter_policy()` (*FilterPolicy method*), 247, 943, 1657  
`create_guest_smtp_notification_settings()` (*GuestSmtpNotificationConfiguration method*), 257, 953, 1667  
`create_guest_ssid()` (*GuestSsid method*), 263, 959, 1673  
`create_guest_type()` (*GuestType method*), 272, 968, 1682  
`create_guest_user()` (*GuestUser method*), 288, 984, 1698  
`create_hotspot_portal()` (*HotspotPortal method*), 303, 999, 1713  
`create_identity_group()` (*IdentityGroups method*), 327, 1023, 1737  
`create_identity_sequence()` (*IdentitySequence method*), 333, 1029, 1743  
`create_internal_user()` (*InternalUser method*), 342, 1038, 1752  
`create_ip_to_sgt_mapping()` (*IpToSgtMapping method*), 311, 1007, 1721  
`create_ip_to_sgt_mapping_group()` (*IpToSgtMappingGroup method*), 320, 1016, 1730  
`create_my_device_portal()` (*MyDevicePortal method*), 368, 1069, 1783  
`create_nbar_app()` (*NbarApp method*), 693, 1404, 2118  
`create_network_access_authentication_rule()` (*NetworkAccessAuthenticationRules method*), 375, 1076, 1790  
`create_network_access_authorization_rule()` (*NetworkAccessAuthorizationRules method*), 388, 1089, 1803  
`create_network_access_condition()` (*NetworkAccessConditions method*), 392, 1093, 1807  
`create_network_access_dictionaries()` (*NetworkAccessDictionary method*), 403, 1104, 1818  
`create_network_access_dictionary_attribute()` (*NetworkAccessDictionaryAttribute method*), 406, 1107, 1821  
`create_network_access_local_exception_rule()` (*NetworkAccessAuthorizationExceptionRules method*), 379, 1080, 1794  
`create_network_access_network_condition()` (*NetworkAccessNetworkConditions method*), 413, 1114, 1828  
`create_network_access_policy_set()` (*NetworkAccessPolicySet method*), 417, 1119, 1833  
`create_network_access_policy_set_global_exception_rules()` (*NetworkAccessAuthorizationGlobalExceptionRules method*), 383, 1084, 1798  
`create_network_access_time_condition()` (*NetworkAccessTimeDateConditions method*), 424, 1126, 1840  
`create_network_device()` (*NetworkDevice method*), 441, 1143, 1857  
`create_network_device_group()` (*NetworkDeviceGroup method*), 449, 1151, 1865  
`create_node_group()` (*NodeGroup method*), 455, 1158, 1872  
`create_portal_theme()` (*PortalTheme method*), 473, 1186, 1900  
`create_radius_server_sequence()` (*RadiusServerSequence method*), 498, 1211, 1925  
`create_registration_info()` (*Licensing method*), 1042, 1756  
`create_repository()` (*Repository method*), 510, 1223, 1937  
`create_rest_id_store()` (*RestidStore method*), 508, 1221, 1935  
`create_scheduled_config_backup()` (*BackupAndRestore method*), 124, 816, 1530  
`create_security_group()` (*SecurityGroups method*), 551, 1263, 1977  
`create_security_groups_acl()` (*SecurityGroupsAcls method*), 559, 1271, 1985  
`create_security_groups_to_vn_to_vlan()` (*SecurityGroupToVirtualNetwork method*), 543, 1255, 1969  
`create_self_registered_portal()` (*SelfRegisteredPortal method*), 586, 1298, 2012  
`create_sg_vn_mapping()` (*SgVnMapping method*), 707, 1419, 2133  
`create_sponsor_group()` (*SponsorGroup method*), 598, 1310, 2024  
`create_sponsor_portal()` (*SponsorPortal method*), 615, 1327, 2041  
`create_sponsored_guest_portal()` (*SponsoredGuestPortal method*), 631, 1343, 2057  
`create_support_bundle()` (*SupportBundleTrig-*

*gerConfiguration method*), 639, 1351, 2065  
*create\_sxp\_connections()* (*SxpConnections method*), 522, 1234, 1948  
*create\_sxp\_local\_bindings()* (*SxpLocalBindings method*), 530, 1242, 1956  
*create\_sxp\_vpn()* (*SxpVpns method*), 536, 1248, 1962  
*create\_system\_certificate()* (*SystemCertificate method*), 645, 1356, 2070  
*create\_tacacs\_command\_sets()* (*TacacsCommandSets method*), 651, 1362, 2076  
*create\_tacacs\_external\_servers()* (*TacacsExternalServers method*), 657, 1368, 2082  
*create\_tacacs\_profile()* (*TacacsProfile method*), 663, 1374, 2088  
*create\_tacacs\_server\_sequence()* (*TacacsServerSequence method*), 669, 1380, 2094  
*create\_virtual\_network()* (*VirtualNetwork method*), 715, 1428, 2142  
*create\_vn\_vlan\_mapping()* (*VnVlanMapping method*), 721, 1435, 2149  
 CustomCaller (class in *ciscoisesdk.api.custom\_caller*), 32

## D

*data()* (*DownloadResponse property*), 2154  
*debug()* (*IdentityServicesEngineAPI property*), 31  
 DEFAULT\_BASE\_URL (in module *ciscoisesdk.config*), 12  
 DEFAULT\_DEBUG (in module *ciscoisesdk.config*), 12  
 DEFAULT\_SINGLE\_REQUEST\_TIMEOUT (in module *ciscoisesdk.config*), 12  
 DEFAULT\_USES\_API\_GATEWAY (in module *ciscoisesdk.config*), 12  
 DEFAULT\_USES\_CSRF\_TOKEN (in module *ciscoisesdk.config*), 13  
 DEFAULT\_VERIFY (in module *ciscoisesdk.config*), 12  
 DEFAULT\_VERSION (in module *ciscoisesdk.config*), 12  
 DEFAULT\_WAIT\_ON\_RATE\_LIMIT (in module *ciscoisesdk.config*), 12  
*delete\_active\_directory\_by\_id()* (*ActiveDirectory method*), 62, 754, 1468  
*delete\_all\_sessions()* (*Misc method*), 352, 1053, 1767  
*delete\_allowed\_protocol\_by\_id()* (*AllowedProtocols method*), 82, 774, 1488  
*delete\_anc\_policy\_by\_id()* (*AncPolicy method*), 90, 782, 1496  
*delete\_authorization\_profile\_by\_id()* (*AuthorizationProfile method*), 102, 794, 1508  
*delete\_by\_id()* (*ActiveDirectory method*), 62, 754, 1468  
*delete\_by\_id()* (*AllowedProtocols method*), 83, 775, 1489

*delete\_by\_id()* (*AncPolicy method*), 91, 783, 1497  
*delete\_by\_id()* (*AuthorizationProfile method*), 102, 794, 1508  
*delete\_by\_id()* (*ByodPortal method*), 116, 808, 1522  
*delete\_by\_id()* (*DeviceAdministrationAuthenticationRules method*), 169, 865, 1579  
*delete\_by\_id()* (*DeviceAdministrationAuthorizationExceptionRules method*), 173, 869, 1583  
*delete\_by\_id()* (*DeviceAdministrationAuthorizationGlobalExceptionRules method*), 177, 873, 1587  
*delete\_by\_id()* (*DeviceAdministrationAuthorizationRules method*), 182, 878, 1592  
*delete\_by\_id()* (*DeviceAdministrationConditions method*), 193, 889, 1603  
*delete\_by\_id()* (*DeviceAdministrationNetworkConditions method*), 199, 895, 1609  
*delete\_by\_id()* (*DeviceAdministrationPolicySet method*), 204, 900, 1614  
*delete\_by\_id()* (*DeviceAdministrationTimeDateConditions method*), 211, 907, 1621  
*delete\_by\_id()* (*DownloadableAcl method*), 214, 910, 1624  
*delete\_by\_id()* (*EgressMatrixCell method*), 221, 917, 1631  
*delete\_by\_id()* (*Endpoint method*), 685, 1396, 2110  
*delete\_by\_id()* (*EndpointIdentityGroup method*), 232, 928, 1642  
*delete\_by\_id()* (*ExternalRadiusServer method*), 240, 936, 1650  
*delete\_by\_id()* (*FilterPolicy method*), 245, 941, 1655  
*delete\_by\_id()* (*GuestSsid method*), 261, 957, 1671  
*delete\_by\_id()* (*GuestType method*), 270, 966, 1680  
*delete\_by\_id()* (*GuestUser method*), 286, 982, 1696  
*delete\_by\_id()* (*HotspotPortal method*), 301, 997, 1711  
*delete\_by\_id()* (*IdentitySequence method*), 331, 1027, 1741  
*delete\_by\_id()* (*InternalUser method*), 340, 1036, 1750  
*delete\_by\_id()* (*IpToSgtMapping method*), 309, 1005, 1719  
*delete\_by\_id()* (*IpToSgtMappingGroup method*), 318, 1014, 1728  
*delete\_by\_id()* (*MyDevicePortal method*), 366, 1067, 1781  
*delete\_by\_id()* (*NativeSupplicantProfile method*), 372, 1073, 1787  
*delete\_by\_id()* (*NbarApp method*), 695, 1406, 2120  
*delete\_by\_id()* (*NetworkAccessAuthentication-*

- Rules method*), 378, 1079, 1793
- `delete_by_id()` (*NetworkAccessAuthorizationExceptionRules method*), 383, 1084, 1798
- `delete_by_id()` (*NetworkAccessAuthorizationGlobalExceptionRules method*), 387, 1088, 1802
- `delete_by_id()` (*NetworkAccessAuthorizationRules method*), 391, 1092, 1806
- `delete_by_id()` (*NetworkAccessConditions method*), 402, 1103, 1817
- `delete_by_id()` (*NetworkAccessNetworkConditions method*), 416, 1118, 1832
- `delete_by_id()` (*NetworkAccessPolicySet method*), 421, 1123, 1837
- `delete_by_id()` (*NetworkAccessTimeDateConditions method*), 429, 1131, 1845
- `delete_by_id()` (*NetworkDevice method*), 439, 1141, 1855
- `delete_by_id()` (*NetworkDeviceGroup method*), 447, 1149, 1863
- `delete_by_id()` (*PortalTheme method*), 471, 1184, 1898
- `delete_by_id()` (*RadiusServerSequence method*), 497, 1210, 1924
- `delete_by_id()` (*RestidStore method*), 506, 1219, 1933
- `delete_by_id()` (*SecurityGroups method*), 549, 1261, 1975
- `delete_by_id()` (*SecurityGroupsAcls method*), 557, 1269, 1983
- `delete_by_id()` (*SecurityGroupToVirtualNetwork method*), 541, 1253, 1967
- `delete_by_id()` (*SelfRegisteredPortal method*), 584, 1296, 2010
- `delete_by_id()` (*SgVnMapping method*), 711, 1424, 2138
- `delete_by_id()` (*SponsoredGuestPortal method*), 629, 1341, 2055
- `delete_by_id()` (*SponsorGroup method*), 596, 1308, 2022
- `delete_by_id()` (*SponsorPortal method*), 613, 1325, 2039
- `delete_by_id()` (*SxpConnections method*), 520, 1232, 1946
- `delete_by_id()` (*SxpLocalBindings method*), 528, 1240, 1954
- `delete_by_id()` (*SxpVpns method*), 534, 1246, 1960
- `delete_by_id()` (*TacacsCommandSets method*), 649, 1360, 2074
- `delete_by_id()` (*TacacsExternalServers method*), 655, 1366, 2080
- `delete_by_id()` (*TacacsProfile method*), 661, 1372, 2086
- `delete_by_id()` (*TacacsServerSequence method*), 668, 1379, 2093
- `delete_by_id()` (*VirtualNetwork method*), 719, 1433, 2147
- `delete_by_name()` (*DeviceAdministrationConditions method*), 189, 885, 1599
- `delete_by_name()` (*GuestUser method*), 280, 976, 1690
- `delete_by_name()` (*InternalUser method*), 338, 1034, 1748
- `delete_by_name()` (*NetworkAccessConditions method*), 398, 1099, 1813
- `delete_by_name()` (*NetworkAccessDictionary method*), 406, 1107, 1821
- `delete_by_name()` (*NetworkAccessDictionaryAttribute method*), 410, 1111, 1825
- `delete_by_name()` (*NetworkDevice method*), 436, 1138, 1852
- `delete_by_name()` (*PxGridNode method*), 702, 1415, 2129
- `delete_by_name()` (*Repository method*), 513, 1226, 1940
- `delete_by_name()` (*RestidStore method*), 504, 1217, 1931
- `delete_byod_portal_by_id()` (*ByodPortal method*), 115, 807, 1521
- `delete_csr_by_id()` (*Certificates method*), 140, 832, 1546
- `delete_device_admin_authentication_rule_by_id()` (*DeviceAdministrationAuthenticationRules method*), 168, 864, 1578
- `delete_device_admin_authorization_rule_by_id()` (*DeviceAdministrationAuthorizationRules method*), 181, 877, 1591
- `delete_device_admin_condition_by_id()` (*DeviceAdministrationConditions method*), 192, 888, 1602
- `delete_device_admin_condition_by_name()` (*DeviceAdministrationConditions method*), 189, 885, 1599
- `delete_device_admin_local_exception_rule_by_id()` (*DeviceAdministrationAuthorizationExceptionRules method*), 173, 869, 1583
- `delete_device_admin_network_condition_by_id()` (*DeviceAdministrationNetworkConditions method*), 198, 894, 1608
- `delete_device_admin_policy_set_by_id()` (*DeviceAdministrationPolicySet method*), 203, 899, 1613
- `delete_device_admin_policy_set_global_exception_by_id()` (*DeviceAdministrationAuthorizationGlobalExceptionRules method*), 177, 873, 1587
- `delete_device_admin_time_condition_by_id()` (*DeviceAdministrationTimeDateConditions method*), 211, 907, 1621
- `delete_downloadable_acl_by_id()` (*Down-*

[loadableAcl method](#)), 213, 909, 1623  
[delete\\_egress\\_matrix\\_cell\\_by\\_id\(\)](#) ([EgressMatrixCell method](#)), 220, 916, 1630  
[delete\\_endpoint\\_by\\_id\(\)](#) ([Endpoint method](#)), 684, 1395, 2109  
[delete\\_endpoint\\_group\\_by\\_id\(\)](#) ([EndpointIdentityGroup method](#)), 231, 927, 1641  
[delete\\_external\\_radius\\_server\\_by\\_id\(\)](#) ([ExternalRadiusServer method](#)), 239, 935, 1649  
[delete\\_filter\\_policy\\_by\\_id\(\)](#) ([FilterPolicy method](#)), 245, 941, 1655  
[delete\\_guest\\_ssid\\_by\\_id\(\)](#) ([GuestSsid method](#)), 261, 957, 1671  
[delete\\_guest\\_type\\_by\\_id\(\)](#) ([GuestType method](#)), 269, 965, 1679  
[delete\\_guest\\_user\\_by\\_id\(\)](#) ([GuestUser method](#)), 285, 981, 1695  
[delete\\_guest\\_user\\_by\\_name\(\)](#) ([GuestUser method](#)), 280, 976, 1690  
[delete\\_hotspot\\_portal\\_by\\_id\(\)](#) ([HotspotPortal method](#)), 300, 996, 1710  
[delete\\_identity\\_sequence\\_by\\_id\(\)](#) ([IdentitySequence method](#)), 331, 1027, 1741  
[delete\\_internal\\_user\\_by\\_id\(\)](#) ([InternalUser method](#)), 340, 1036, 1750  
[delete\\_internal\\_user\\_by\\_name\(\)](#) ([InternalUser method](#)), 337, 1033, 1747  
[delete\\_ip\\_to\\_sgt\\_mapping\\_by\\_id\(\)](#) ([IpToSgtMapping method](#)), 308, 1004, 1718  
[delete\\_ip\\_to\\_sgt\\_mapping\\_group\\_by\\_id\(\)](#) ([IpToSgtMappingGroup method](#)), 317, 1013, 1727  
[delete\\_my\\_device\\_portal\\_by\\_id\(\)](#) ([MyDevicePortal method](#)), 365, 1066, 1780  
[delete\\_native\\_suppllicant\\_profile\\_by\\_id\(\)](#) ([NativeSuppllicantProfile method](#)), 372, 1073, 1787  
[delete\\_nbar\\_app\\_by\\_id\(\)](#) ([NbarApp method](#)), 695, 1406, 2120  
[delete\\_network\\_access\\_authentication\\_rule\\_by\\_id\(\)](#) ([NetworkAccessAuthenticationRules method](#)), 378, 1079, 1793  
[delete\\_network\\_access\\_authorization\\_rule\\_by\\_id\(\)](#) ([NetworkAccessAuthorizationRules method](#)), 391, 1092, 1806  
[delete\\_network\\_access\\_condition\\_by\\_id\(\)](#) ([NetworkAccessConditions method](#)), 401, 1102, 1816  
[delete\\_network\\_access\\_condition\\_by\\_name\(\)](#) ([NetworkAccessConditions method](#)), 398, 1099, 1813  
[delete\\_network\\_access\\_dictionary\\_attribute\\_by\\_name\(\)](#) ([NetworkAccessDictionaryAttribute method](#)), 409, 1110, 1824  
[delete\\_network\\_access\\_dictionary\\_by\\_name\(\)](#) ([NetworkAccessDictionary method](#)), 405, 1106, 1820  
[delete\\_network\\_access\\_local\\_exception\\_rule\\_by\\_id\(\)](#) ([NetworkAccessAuthorizationExceptionRules method](#)), 382, 1083, 1797  
[delete\\_network\\_access\\_network\\_condition\\_by\\_id\(\)](#) ([NetworkAccessNetworkConditions method](#)), 415, 1117, 1831  
[delete\\_network\\_access\\_policy\\_set\\_by\\_id\(\)](#) ([NetworkAccessPolicySet method](#)), 420, 1122, 1836  
[delete\\_network\\_access\\_policy\\_set\\_global\\_exception\\_rules\\_by\\_id\(\)](#) ([NetworkAccessAuthorizationGlobalExceptionRules method](#)), 387, 1088, 1802  
[delete\\_network\\_access\\_time\\_condition\\_by\\_id\(\)](#) ([NetworkAccessTimeDateConditions method](#)), 428, 1130, 1844  
[delete\\_network\\_device\\_by\\_id\(\)](#) ([NetworkDevice method](#)), 438, 1140, 1854  
[delete\\_network\\_device\\_by\\_name\(\)](#) ([NetworkDevice method](#)), 436, 1138, 1852  
[delete\\_network\\_device\\_group\\_by\\_id\(\)](#) ([NetworkDeviceGroup method](#)), 446, 1148, 1862  
[delete\\_node\(\)](#) ([NodeDeployment method](#)), 453, 1155, 1869  
[delete\\_node\\_group\(\)](#) ([NodeGroup method](#)), 456, 1161, 1875  
[delete\\_portal\\_theme\\_by\\_id\(\)](#) ([PortalTheme method](#)), 470, 1183, 1897  
[delete\\_px\\_grid\\_node\\_by\\_name\(\)](#) ([PxGridNode method](#)), 702, 1414, 2128  
[delete\\_radius\\_server\\_sequence\\_by\\_id\(\)](#) ([RadiusServerSequence method](#)), 497, 1210, 1924  
[delete\\_repository\(\)](#) ([Repository method](#)), 513, 1225, 1939  
[delete\\_rest\\_id\\_store\\_by\\_id\(\)](#) ([RestidStore method](#)), 505, 1218, 1932  
[delete\\_rest\\_id\\_store\\_by\\_name\(\)](#) ([RestidStore method](#)), 503, 1216, 1930  
[delete\\_security\\_group\\_by\\_id\(\)](#) ([SecurityGroups method](#)), 548, 1260, 1974  
[delete\\_security\\_groups\\_acl\\_by\\_id\(\)](#) ([SecurityGroupsAcls method](#)), 556, 1268, 1982  
[delete\\_security\\_groups\\_to\\_vn\\_to\\_vlan\\_by\\_id\(\)](#) ([SecurityGroupToVirtualNetwork method](#)), 541, 1253, 1967  
[delete\\_self\\_registered\\_portal\\_by\\_id\(\)](#) ([SelfRegisteredPortal method](#)), 583, 1295, 2009  
[delete\\_sg\\_vn\\_mapping\\_by\\_id\(\)](#) ([SgVnMapping method](#)), 711, 1423, 2137



- delete\_sponsor\_group\_by\_id() (*SponsorGroup method*), 595, 1307, 2021
- delete\_sponsor\_portal\_by\_id() (*SponsorPortal method*), 612, 1324, 2038
- delete\_sponsored\_guest\_portal\_by\_id() (*SponsoredGuestPortal method*), 629, 1341, 2055
- delete\_sxp\_connections\_by\_id() (*SxpConnections method*), 519, 1232, 1946
- delete\_sxp\_local\_bindings\_by\_id() (*SxpLocalBindings method*), 527, 1239, 1953
- delete\_sxp\_vpn\_by\_id() (*SxpVpns method*), 534, 1246, 1960
- delete\_system\_certificate\_by\_id() (*Certificates method*), 151, 847, 1561
- delete\_tacacs\_command\_sets\_by\_id() (*TacacsCommandSets method*), 649, 1360, 2074
- delete\_tacacs\_external\_servers\_by\_id() (*TacacsExternalServers method*), 655, 1366, 2080
- delete\_tacacs\_profile\_by\_id() (*TacacsProfile method*), 661, 1372, 2086
- delete\_tacacs\_server\_sequence\_by\_id() (*TacacsServerSequence method*), 667, 1378, 2092
- delete\_trusted\_certificate\_by\_id() (*Certificates method*), 159, 855, 1569
- delete\_virtual\_network\_by\_id() (*VirtualNetwork method*), 718, 1432, 2146
- delete\_vn\_vlan\_mapping\_by\_id() (*VnVlanMapping method*), 725, 1439, 2153
- deny\_by\_id() (*GuestUser method*), 283, 979, 1693
- deny\_guest\_user\_by\_id() (*GuestUser method*), 283, 979, 1693
- deploy\_all() (*IpToSgtMapping method*), 306, 1002, 1716
- deploy\_all\_ip\_to\_sgt\_mapping() (*IpToSgtMapping method*), 306, 1002, 1716
- deploy\_all\_ip\_to\_sgt\_mapping\_group() (*IpToSgtMappingGroup method*), 315, 1011, 1725
- deploy\_by\_id() (*IpToSgtMapping method*), 306, 1002, 1716
- deploy\_ip\_to\_sgt\_mapping\_by\_id() (*IpToSgtMapping method*), 305, 1001, 1715
- deploy\_ip\_to\_sgt\_mapping\_group\_by\_id() (*IpToSgtMappingGroup method*), 314, 1010, 1724
- deregister() (*Endpoint method*), 681, 1392, 2106
- deregister\_endpoint() (*Endpoint method*), 681, 1392, 2106
- description (*ApiError attribute*), 2156
- details (*ApiError attribute*), 2155
- details\_str (*ApiError attribute*), 2155
- DeviceAdministrationAuthenticationRules (class in *ciscoisesdk.api.v3\_1\_0.device\_administration\_authentication\_rules*), 164
- DeviceAdministrationAuthenticationRules (class in *ciscoisesdk.api.v3\_1\_1.device\_administration\_authentication\_rules*), 860
- DeviceAdministrationAuthenticationRules (class in *ciscoisesdk.api.v3\_1\_patch\_1.device\_administration\_authentication\_rules*), 1574
- DeviceAdministrationAuthorizationExceptionRules (class in *ciscoisesdk.api.v3\_1\_0.device\_administration\_authorization\_exception\_rules*), 169
- DeviceAdministrationAuthorizationExceptionRules (class in *ciscoisesdk.api.v3\_1\_1.device\_administration\_authorization\_exception\_rules*), 865
- DeviceAdministrationAuthorizationExceptionRules (class in *ciscoisesdk.api.v3\_1\_patch\_1.device\_administration\_authorization\_exception\_rules*), 1579
- DeviceAdministrationAuthorizationGlobalExceptionRules (class in *ciscoisesdk.api.v3\_1\_0.device\_administration\_authorization\_global\_exception\_rules*), 173
- DeviceAdministrationAuthorizationGlobalExceptionRules (class in *ciscoisesdk.api.v3\_1\_1.device\_administration\_authorization\_global\_exception\_rules*), 869
- DeviceAdministrationAuthorizationGlobalExceptionRules (class in *ciscoisesdk.api.v3\_1\_patch\_1.device\_administration\_authorization\_global\_exception\_rules*), 1583
- DeviceAdministrationAuthorizationRules (class in *ciscoisesdk.api.v3\_1\_0.device\_administration\_authorization\_rules*), 178
- DeviceAdministrationAuthorizationRules (class in *ciscoisesdk.api.v3\_1\_1.device\_administration\_authorization\_rules*), 874
- DeviceAdministrationAuthorizationRules (class in *ciscoisesdk.api.v3\_1\_patch\_1.device\_administration\_authorization\_rules*), 1588
- DeviceAdministrationCommandSet (class in *ciscoisesdk.api.v3\_1\_0.device\_administration\_command\_set*), 182
- DeviceAdministrationCommandSet

|  |  |            |
|--|--|------------|
|  | (class in ciscois-esdk.api.v3_1_1.device_administration_command_set)                 | 1606       |
| DeviceAdministrationPolicySet          | (class in ciscois-esdk.api.v3_1_0.device_administration_policy_set),                 |            |
| DeviceAdministrationCommandSet         | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_command_set),          | 199        |
| DeviceAdministrationPolicySet          | (class in ciscois-esdk.api.v3_1_1.device_administration_policy_set),                 |            |
| DeviceAdministrationConditions         | (class in ciscois-esdk.api.v3_1_0.device_administration_conditions)                  | 895        |
| DeviceAdministrationPolicySet          | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_policy_set),           |            |
| DeviceAdministrationConditions         | (class in ciscois-esdk.api.v3_1_1.device_administration_conditions)                  | 1609       |
| DeviceAdministrationProfiles           | (class in ciscois-esdk.api.v3_1_0.device_administration_profiles),                   |            |
| DeviceAdministrationProfiles           | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_profiles),             | 204        |
| DeviceAdministrationProfiles           | (class in ciscois-esdk.api.v3_1_1.device_administration_profiles),                   |            |
| DeviceAdministrationProfiles           | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_profiles),             | 1614       |
| DeviceAdministrationServiceNames       | (class in ciscois-esdk.api.v3_1_0.device_administration_service_names),              |            |
| DeviceAdministrationServiceNames       | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_service_names),        | 205        |
| DeviceAdministrationServiceNames       | (class in ciscois-esdk.api.v3_1_1.device_administration_service_names),              |            |
| DeviceAdministrationServiceNames       | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_service_names),        | 1615       |
| DeviceAdministrationTimeDateConditions | (class in ciscois-esdk.api.v3_1_0.device_administration_time_date_conditions),       |            |
| DeviceAdministrationTimeDateConditions | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_time_date_conditions), | 205        |
| DeviceAdministrationTimeDateConditions | (class in ciscois-esdk.api.v3_1_1.device_administration_time_date_conditions),       |            |
| DeviceAdministrationTimeDateConditions | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_time_date_conditions), | 1615       |
| DeviceAdministrationNetworkConditions  | (class in ciscois-esdk.api.v3_1_0.device_administration_network_conditions),         | 901        |
| DeviceAdministrationNetworkConditions  | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_network_conditions),   | 1615       |
| DeviceAdministrationNetworkConditions  | (class in ciscois-esdk.api.v3_1_1.device_administration_network_conditions),         | 892        |
| DeviceAdministrationNetworkConditions  | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_network_conditions),   | 1346, 2060 |
| DeviceAdministrationNetworkConditions  | (class in ciscois-esdk.api.v3_1_patch_1.device_administration_network_conditions),   |            |

*Download method*), 633, 1345, 2059

DownloadableAcl (class in *ciscoisesdk.api.v3\_1\_0.downloadable\_acl*), 211

DownloadableAcl (class in *ciscoisesdk.api.v3\_1\_1.downloadable\_acl*), 907

DownloadableAcl (class in *ciscoisesdk.api.v3\_1\_patch\_1.downloadable\_acl*), 1621

DownloadFailure, 2156

DownloadResponse (class in *ciscoisesdk.restsession*), 2154

## E

EgressMatrixCell (class in *ciscoisesdk.api.v3\_1\_0.egress\_matrix\_cell*), 216

EgressMatrixCell (class in *ciscoisesdk.api.v3\_1\_1.egress\_matrix\_cell*), 912

EgressMatrixCell (class in *ciscoisesdk.api.v3\_1\_patch\_1.egress\_matrix\_cell*), 1626

enable\_pan\_ha() (*PanHa method*), 462

Endpoint (class in *ciscoisesdk.api.v3\_1\_0.endpoint*), 679

Endpoint (class in *ciscoisesdk.api.v3\_1\_1.endpoint*), 1390

Endpoint (class in *ciscoisesdk.api.v3\_1\_patch\_1.endpoint*), 2104

EndpointCertificate (class in *ciscoisesdk.api.v3\_1\_0.endpoint\_certificate*), 226

EndpointCertificate (class in *ciscoisesdk.api.v3\_1\_1.endpoint\_certificate*), 922

EndpointCertificate (class in *ciscoisesdk.api.v3\_1\_patch\_1.endpoint\_certificate*), 1636

EndpointIdentityGroup (class in *ciscoisesdk.api.v3\_1\_0.endpoint\_identity\_group*), 229

EndpointIdentityGroup (class in *ciscoisesdk.api.v3\_1\_1.endpoint\_identity\_group*), 925

EndpointIdentityGroup (class in *ciscoisesdk.api.v3\_1\_patch\_1.endpoint\_identity\_group*), 1639

ers\_base\_url() (*IdentityServicesEngineAPI property*), 31

export\_csr() (*Certificates method*), 139, 831, 1545

export\_system\_certificate() (*Certificates method*), 144, 836, 1550

export\_trusted\_certificate() (*Certificates method*), 154, 849, 1563

ExternalRadiusServer (class in *ciscoisesdk.api.v3\_1\_0.external\_radius\_server*), 235

ExternalRadiusServer (class in *ciscoisesdk.api.v3\_1\_1.external\_radius\_server*), 931

ExternalRadiusServer (class in *ciscoisesdk.api.v3\_1\_patch\_1.external\_radius\_server*), 1645

## F

filename() (*DownloadResponse property*), 2154

FilterPolicy (class in *ciscoisesdk.api.v3\_1\_0.filter\_policy*), 243

FilterPolicy (class in *ciscoisesdk.api.v3\_1\_1.filter\_policy*), 939

FilterPolicy (class in *ciscoisesdk.api.v3\_1\_patch\_1.filter\_policy*), 1653

## G

generate\_csr() (*Certificates method*), 137, 829, 1543

generate\_intermediate\_ca\_csr() (*Certificates method*), 139, 831, 1545

generate\_self\_signed\_certificate() (*Certificates method*), 837, 1551

get() (*MyDict method*), 2154

get\_account\_status\_by\_mac() (*Misc method*), 355, 1056, 1770

get\_aci\_bindings() (*AciBindings method*), 34, 727, 1441

get\_aci\_bindings\_generator() (*AciBindings method*), 35, 728, 1442

get\_aci\_settings() (*AciSettings method*), 38, 730, 1444

get\_active\_count() (*Misc method*), 347, 1048, 1762

get\_active\_directory() (*ActiveDirectory method*), 63, 755, 1469

get\_active\_directory\_by\_id() (*ActiveDirectory method*), 61, 753, 1467

get\_active\_directory\_by\_name() (*ActiveDirectory method*), 55, 747, 1461

get\_active\_directory\_generator() (*ActiveDirectory method*), 63, 755, 1469

get\_active\_list() (*Misc method*), 347, 1048, 1762

get\_admin\_user\_by\_id() (*AdminUser method*), 66, 758, 1472

get\_admin\_users() (*AdminUser method*), 67, 759, 1473

get\_admin\_users\_generator() (*AdminUser method*), 68, 760, 1474

get\_all() (*AciBindings method*), 35, 728, 1442

get\_all() (*AciSettings method*), 39, 731, 1445

get\_all() (*ActiveDirectory method*), 63, 755, 1469

get\_all() (*AdminUser method*), 68, 760, 1474

`get_all()` (*AllowedProtocols method*), 83, 775, 1489  
`get_all()` (*AncEndpoint method*), 45, 737, 1451  
`get_all()` (*AncPolicy method*), 92, 784, 1498  
`get_all()` (*AuthorizationProfile method*), 103, 795, 1509  
`get_all()` (*ByodPortal method*), 117, 809, 1523  
`get_all()` (*CertificateProfile method*), 129, 821, 1535  
`get_all()` (*CertificateTemplate method*), 134, 826, 1540  
`get_all()` (*DeviceAdministrationAuthenticationRules method*), 165, 861, 1575  
`get_all()` (*DeviceAdministrationAuthorizationExceptionRules method*), 170, 866, 1580  
`get_all()` (*DeviceAdministrationAuthorizationGlobalExceptionRules method*), 174, 870, 1584  
`get_all()` (*DeviceAdministrationAuthorizationRules method*), 178, 874, 1588  
`get_all()` (*DeviceAdministrationCommandSet method*), 182, 878, 1592  
`get_all()` (*DeviceAdministrationConditions method*), 183, 879, 1593  
`get_all()` (*DeviceAdministrationIdentityStores method*), 195, 891, 1605  
`get_all()` (*DeviceAdministrationNetworkConditions method*), 196, 892, 1606  
`get_all()` (*DeviceAdministrationPolicySet method*), 200, 896, 1610  
`get_all()` (*DeviceAdministrationProfiles method*), 204, 900, 1614  
`get_all()` (*DeviceAdministrationServiceNames method*), 205, 901, 1615  
`get_all()` (*DeviceAdministrationTimeDateConditions method*), 206, 902, 1616  
`get_all()` (*DownloadableAcl method*), 214, 910, 1624  
`get_all()` (*EgressMatrixCell method*), 222, 918, 1632  
`get_all()` (*Endpoint method*), 687, 1398, 2112  
`get_all()` (*EndpointIdentityGroup method*), 233, 929, 1643  
`get_all()` (*ExternalRadiusServer method*), 240, 936, 1650  
`get_all()` (*FilterPolicy method*), 246, 942, 1656  
`get_all()` (*GuestLocation method*), 250, 946, 1660  
`get_all()` (*GuestSntpNotificationConfiguration method*), 256, 952, 1666  
`get_all()` (*GuestSsid method*), 262, 958, 1672  
`get_all()` (*GuestType method*), 271, 967, 1681  
`get_all()` (*GuestUser method*), 287, 983, 1697  
`get_all()` (*HotspotPortal method*), 302, 998, 1712  
`get_all()` (*IdentityGroups method*), 326, 1022, 1736  
`get_all()` (*IdentitySequence method*), 332, 1028, 1742  
`get_all()` (*InternalUser method*), 341, 1037, 1751  
`get_all()` (*IpToSgtMapping method*), 310, 1006, 1720  
`get_all()` (*IpToSgtMappingGroup method*), 319, 1015, 1729  
`get_all()` (*Mdm method*), 345, 1046, 1760  
`get_all()` (*MyDevicePortal method*), 367, 1068, 1782  
`get_all()` (*NativeSupplicantProfile method*), 373, 1074, 1788  
`get_all()` (*NbarApp method*), 692, 1403, 2117  
`get_all()` (*NetworkAccessAuthenticationRules method*), 375, 1076, 1790  
`get_all()` (*NetworkAccessAuthorizationExceptionRules method*), 379, 1080, 1794  
`get_all()` (*NetworkAccessAuthorizationGlobalExceptionRules method*), 383, 1084, 1798  
`get_all()` (*NetworkAccessAuthorizationRules method*), 388, 1089, 1803  
`get_all()` (*NetworkAccessConditions method*), 392, 1093, 1807  
`get_all()` (*NetworkAccessDictionary method*), 403, 1104, 1818  
`get_all()` (*NetworkAccessDictionaryAttribute method*), 406, 1107, 1821  
`get_all()` (*NetworkAccessIdentityStores method*), 412, 1113, 1827  
`get_all()` (*NetworkAccessNetworkConditions method*), 413, 1114, 1828  
`get_all()` (*NetworkAccessPolicySet method*), 417, 1119, 1833  
`get_all()` (*NetworkAccessProfiles method*), 421, 1123, 1837  
`get_all()` (*NetworkAccessSecurityGroups method*), 422, 1124, 1838  
`get_all()` (*NetworkAccessServiceNames method*), 423, 1125, 1839  
`get_all()` (*NetworkAccessTimeDateConditions method*), 423, 1125, 1839  
`get_all()` (*NetworkDevice method*), 440, 1142, 1856  
`get_all()` (*NetworkDeviceGroup method*), 448, 1150, 1864  
`get_all()` (*NodeDeployment method*), 452, 1154, 1868  
`get_all()` (*NodeDetails method*), 460, 1170, 1884  
`get_all()` (*Portal method*), 698, 1409, 2123  
`get_all()` (*PortalGlobalSetting method*), 466, 1179, 1893  
`get_all()` (*PortalTheme method*), 471, 1184, 1898  
`get_all()` (*ProfilerProfile method*), 477, 1190, 1904  
`get_all()` (*PsnNodeDetailsWithRadiusService method*), 483, 1196, 1910  
`get_all()` (*PullDeploymentInfo method*), 489, 1202, 1916  
`get_all()` (*PxGridNode method*), 703, 1416, 2130  
`get_all()` (*RadiusServerSequence method*), 498, 1211, 1925  
`get_all()` (*Repository method*), 510, 1223, 1937



- [get\\_all\(\)](#) (*RestidStore method*), 507, 1220, 1934  
[get\\_all\(\)](#) (*SecurityGroups method*), 550, 1262, 1976  
[get\\_all\(\)](#) (*SecurityGroupsAcls method*), 558, 1270, 1984  
[get\\_all\(\)](#) (*SecurityGroupToVirtualNetwork method*), 542, 1254, 1968  
[get\\_all\(\)](#) (*SelfRegisteredPortal method*), 585, 1297, 2011  
[get\\_all\(\)](#) (*SgVnMapping method*), 705, 1418, 2132  
[get\\_all\(\)](#) (*SmsProvider method*), 516, 1228, 1942  
[get\\_all\(\)](#) (*SponsoredGuestPortal method*), 630, 1342, 2056  
[get\\_all\(\)](#) (*SponsorGroup method*), 597, 1309, 2023  
[get\\_all\(\)](#) (*SponsorGroupMember method*), 601, 1313, 2027  
[get\\_all\(\)](#) (*SponsorPortal method*), 614, 1326, 2040  
[get\\_all\(\)](#) (*SupportBundleStatus method*), 636, 1348, 2062  
[get\\_all\(\)](#) (*SxpConnections method*), 521, 1233, 1947  
[get\\_all\(\)](#) (*SxpLocalBindings method*), 529, 1241, 1955  
[get\\_all\(\)](#) (*SxpVpns method*), 535, 1247, 1961  
[get\\_all\(\)](#) (*TacacsCommandSets method*), 650, 1361, 2075  
[get\\_all\(\)](#) (*TacacsExternalServers method*), 656, 1367, 2081  
[get\\_all\(\)](#) (*TacacsProfile method*), 662, 1373, 2087  
[get\\_all\(\)](#) (*TacacsServerSequence method*), 668, 1379, 2093  
[get\\_all\(\)](#) (*TelemetryInformation method*), 673, 1384, 2098  
[get\\_all\(\)](#) (*TrustSecConfiguration method*), 675, 1386, 2100  
[get\\_all\(\)](#) (*VersionAndPatch method*), 678, 1389, 2103  
[get\\_all\(\)](#) (*VirtualNetwork method*), 713, 1427, 2141  
[get\\_all\(\)](#) (*VnVlanMapping method*), 720, 1434, 2148  
[get\\_all\\_authentication\(\)](#) (*DeviceAdministrationDictionaryAttributesList method*), 194, 890, 1604  
[get\\_all\\_authentication\(\)](#) (*NetworkAccessDictionaryAttributesList method*), 411, 1112, 1826  
[get\\_all\\_authentication\\_rules\(\)](#) (*DeviceAdministrationConditions method*), 186, 882, 1596  
[get\\_all\\_authorization\(\)](#) (*DeviceAdministrationDictionaryAttributesList method*), 194, 890, 1604  
[get\\_all\\_authorization\(\)](#) (*NetworkAccessDictionaryAttributesList method*), 411, 1112, 1826  
[get\\_all\\_authorization\\_rules\(\)](#) (*DeviceAdministrationConditions method*), 186, 882, 1596  
[get\\_all\\_for\\_policy\\_sets\(\)](#) (*DeviceAdministrationConditions method*), 190, 886, 1600  
[get\\_all\\_for\\_policy\\_sets\(\)](#) (*NetworkAccessConditions method*), 399, 1100, 1814  
[get\\_all\\_generator\(\)](#) (*AciBindings method*), 36, 729, 1443  
[get\\_all\\_generator\(\)](#) (*ActiveDirectory method*), 64, 756, 1470  
[get\\_all\\_generator\(\)](#) (*AdminUser method*), 69, 761, 1475  
[get\\_all\\_generator\(\)](#) (*AllowedProtocols method*), 84, 776, 1490  
[get\\_all\\_generator\(\)](#) (*AncEndpoint method*), 46, 738, 1452  
[get\\_all\\_generator\(\)](#) (*AncPolicy method*), 93, 785, 1499  
[get\\_all\\_generator\(\)](#) (*AuthorizationProfile method*), 104, 796, 1510  
[get\\_all\\_generator\(\)](#) (*ByodPortal method*), 118, 810, 1524  
[get\\_all\\_generator\(\)](#) (*CertificateProfile method*), 130, 822, 1536  
[get\\_all\\_generator\(\)](#) (*CertificateTemplate method*), 135, 827, 1541  
[get\\_all\\_generator\(\)](#) (*DownloadableAcl method*), 215, 911, 1625  
[get\\_all\\_generator\(\)](#) (*EgressMatrixCell method*), 223, 919, 1633  
[get\\_all\\_generator\(\)](#) (*Endpoint method*), 688, 1399, 2113  
[get\\_all\\_generator\(\)](#) (*EndpointIdentityGroup method*), 234, 930, 1644  
[get\\_all\\_generator\(\)](#) (*ExternalRadiusServer method*), 241, 937, 1651  
[get\\_all\\_generator\(\)](#) (*FilterPolicy method*), 246, 942, 1656  
[get\\_all\\_generator\(\)](#) (*GuestLocation method*), 251, 947, 1661  
[get\\_all\\_generator\(\)](#) (*GuestSmtptNotificationConfiguration method*), 257, 953, 1667  
[get\\_all\\_generator\(\)](#) (*GuestSsid method*), 263, 959, 1673  
[get\\_all\\_generator\(\)](#) (*GuestType method*), 272, 968, 1682  
[get\\_all\\_generator\(\)](#) (*GuestUser method*), 288, 984, 1698  
[get\\_all\\_generator\(\)](#) (*HotspotPortal method*), 303, 999, 1713  
[get\\_all\\_generator\(\)](#) (*IdentityGroups method*), 327, 1023, 1737  
[get\\_all\\_generator\(\)](#) (*IdentitySequence method*), 333, 1029, 1743  
[get\\_all\\_generator\(\)](#) (*InternalUser method*), 342, 1038, 1752

`get_all_generator()` (*IpToSgtMapping method*), 311, 1007, 1721

`get_all_generator()` (*IpToSgtMappingGroup method*), 320, 1016, 1730

`get_all_generator()` (*MyDevicePortal method*), 368, 1069, 1783

`get_all_generator()` (*NativeSupplicantProfile method*), 373, 1074, 1788

`get_all_generator()` (*NbarApp method*), 693, 1404, 2118

`get_all_generator()` (*NetworkDevice method*), 441, 1143, 1857

`get_all_generator()` (*NetworkDeviceGroup method*), 449, 1151, 1865

`get_all_generator()` (*NodeDetails method*), 461, 1171, 1885

`get_all_generator()` (*Portal method*), 699, 1410, 2124

`get_all_generator()` (*PortalGlobalSetting method*), 467, 1181, 1895

`get_all_generator()` (*PortalTheme method*), 473, 1186, 1900

`get_all_generator()` (*ProfilerProfile method*), 478, 1191, 1905

`get_all_generator()` (*PsnNodeDetailsWithRadiusService method*), 484, 1197, 1911

`get_all_generator()` (*PxGridNode method*), 704, 1416, 2130

`get_all_generator()` (*RadiusServerSequence method*), 498, 1211, 1925

`get_all_generator()` (*RestidStore method*), 508, 1221, 1935

`get_all_generator()` (*SecurityGroups method*), 551, 1263, 1977

`get_all_generator()` (*SecurityGroupsAcls method*), 559, 1271, 1985

`get_all_generator()` (*SecurityGroupToVirtualNetwork method*), 543, 1255, 1969

`get_all_generator()` (*SelfRegisteredPortal method*), 586, 1298, 2012

`get_all_generator()` (*SgVnMapping method*), 706, 1419, 2133

`get_all_generator()` (*SmsProvider method*), 517, 1229, 1943

`get_all_generator()` (*SponsoredGuestPortal method*), 631, 1343, 2057

`get_all_generator()` (*SponsorGroup method*), 598, 1310, 2024

`get_all_generator()` (*SponsorGroupMember method*), 602, 1314, 2028

`get_all_generator()` (*SponsorPortal method*), 615, 1327, 2041

`get_all_generator()` (*SupportBundleStatus method*), 637, 1349, 2063

`get_all_generator()` (*SxpConnections method*), 522, 1234, 1948

`get_all_generator()` (*SxpLocalBindings method*), 530, 1242, 1956

`get_all_generator()` (*SxpVpns method*), 536, 1248, 1962

`get_all_generator()` (*TacacsCommandSets method*), 651, 1362, 2076

`get_all_generator()` (*TacacsExternalServers method*), 657, 1368, 2082

`get_all_generator()` (*TacacsProfile method*), 663, 1374, 2088

`get_all_generator()` (*TacacsServerSequence method*), 669, 1380, 2094

`get_all_generator()` (*TelemetryInformation method*), 674, 1385, 2099

`get_all_generator()` (*VirtualNetwork method*), 714, 1428, 2142

`get_all_generator()` (*VnVlanMapping method*), 721, 1435, 2149

`get_all_policy_set()` (*DeviceAdministrationDictionaryAttributesList method*), 195, 891, 1605

`get_all_policy_set()` (*NetworkAccessDictionaryAttributesList method*), 412, 1113, 1827

`get_allowed_protocol_by_id()` (*AllowedProtocols method*), 80, 772, 1486

`get_allowed_protocol_by_name()` (*AllowedProtocols method*), 79, 771, 1485

`get_allowed_protocols()` (*AllowedProtocols method*), 83, 775, 1489

`get_allowed_protocols_generator()` (*AllowedProtocols method*), 84, 776, 1490

`get_anc_endpoint()` (*AncEndpoint method*), 44, 736, 1450

`get_anc_endpoint_by_id()` (*AncEndpoint method*), 43, 735, 1449

`get_anc_endpoint_generator()` (*AncEndpoint method*), 45, 737, 1451

`get_anc_policy()` (*AncPolicy method*), 91, 783, 1497

`get_anc_policy_by_id()` (*AncPolicy method*), 89, 781, 1495

`get_anc_policy_by_name()` (*AncPolicy method*), 88, 780, 1494

`get_anc_policy_generator()` (*AncPolicy method*), 92, 784, 1498

`get_authentication_status_by_mac()` (*Misc method*), 353, 1054, 1768

`get_authorization_profile_by_id()` (*AuthorizationProfile method*), 99, 791, 1505

`get_authorization_profile_by_name()` (*AuthorizationProfile method*), 99, 791, 1505

`get_authorization_profiles()` (*AuthorizationProfile method*), 102, 794, 1508  
`get_authorization_profiles_generator()` (*AuthorizationProfile method*), 103, 795, 1509  
`get_bindings()` (*TrustSecSxp method*), 677, 1388, 2102  
`get_by_id()` (*ActiveDirectory method*), 62, 754, 1468  
`get_by_id()` (*AdminUser method*), 67, 759, 1473  
`get_by_id()` (*AllowedProtocols method*), 80, 772, 1486  
`get_by_id()` (*AncEndpoint method*), 43, 735, 1449  
`get_by_id()` (*AncPolicy method*), 89, 781, 1495  
`get_by_id()` (*AuthorizationProfile method*), 100, 792, 1506  
`get_by_id()` (*ByodPortal method*), 114, 806, 1520  
`get_by_id()` (*CertificateProfile method*), 127, 819, 1533  
`get_by_id()` (*CertificateTemplate method*), 133, 825, 1539  
`get_by_id()` (*DeviceAdministrationAuthenticationRules method*), 167, 863, 1577  
`get_by_id()` (*DeviceAdministrationAuthorizationExceptionRules method*), 172, 868, 1582  
`get_by_id()` (*DeviceAdministrationAuthorizationGlobalExceptionRules method*), 176, 872, 1586  
`get_by_id()` (*DeviceAdministrationAuthorizationRules method*), 180, 876, 1590  
`get_by_id()` (*DeviceAdministrationConditions method*), 190, 886, 1600  
`get_by_id()` (*DeviceAdministrationNetworkConditions method*), 197, 893, 1607  
`get_by_id()` (*DeviceAdministrationPolicySet method*), 202, 898, 1612  
`get_by_id()` (*DeviceAdministrationTimeDateConditions method*), 208, 904, 1618  
`get_by_id()` (*DownloadableAcl method*), 212, 908, 1622  
`get_by_id()` (*EgressMatrixCell method*), 219, 915, 1629  
`get_by_id()` (*Endpoint method*), 683, 1394, 2108  
`get_by_id()` (*EndpointIdentityGroup method*), 230, 926, 1640  
`get_by_id()` (*ExternalRadiusServer method*), 238, 934, 1648  
`get_by_id()` (*FilterPolicy method*), 244, 940, 1654  
`get_by_id()` (*GuestLocation method*), 249, 945, 1659  
`get_by_id()` (*GuestSntpNotificationConfiguration method*), 254, 950, 1664  
`get_by_id()` (*GuestSsid method*), 260, 956, 1670  
`get_by_id()` (*GuestType method*), 268, 964, 1678  
`get_by_id()` (*GuestUser method*), 284, 980, 1694  
`get_by_id()` (*HotspotPortal method*), 299, 995, 1709  
`get_by_id()` (*IdentityGroups method*), 324, 1020, 1734  
`get_by_id()` (*IdentitySequence method*), 330, 1026, 1740  
`get_by_id()` (*InternalUser method*), 338, 1034, 1748  
`get_by_id()` (*IpToSgtMapping method*), 307, 1003, 1717  
`get_by_id()` (*IpToSgtMappingGroup method*), 316, 1012, 1726  
`get_by_id()` (*MyDevicePortal method*), 364, 1065, 1779  
`get_by_id()` (*NativeSupplicantProfile method*), 371, 1072, 1786  
`get_by_id()` (*NbarApp method*), 694, 1405, 2119  
`get_by_id()` (*NetworkAccessAuthenticationRules method*), 377, 1078, 1792  
`get_by_id()` (*NetworkAccessAuthorizationExceptionRules method*), 381, 1082, 1796  
`get_by_id()` (*NetworkAccessAuthorizationGlobalExceptionRules method*), 385, 1086, 1800  
`get_by_id()` (*NetworkAccessAuthorizationRules method*), 390, 1091, 1805  
`get_by_id()` (*NetworkAccessConditions method*), 399, 1100, 1814  
`get_by_id()` (*NetworkAccessNetworkConditions method*), 415, 1116, 1830  
`get_by_id()` (*NetworkAccessPolicySet method*), 419, 1121, 1835  
`get_by_id()` (*NetworkAccessTimeDateConditions method*), 426, 1128, 1842  
`get_by_id()` (*NetworkDevice method*), 437, 1139, 1853  
`get_by_id()` (*NetworkDeviceGroup method*), 445, 1147, 1861  
`get_by_id()` (*NodeDetails method*), 459, 1169, 1883  
`get_by_id()` (*Portal method*), 697, 1408, 2122  
`get_by_id()` (*PortalGlobalSetting method*), 465, 1178, 1892  
`get_by_id()` (*PortalTheme method*), 469, 1182, 1896  
`get_by_id()` (*ProfilerProfile method*), 476, 1189, 1903  
`get_by_id()` (*PsnNodeDetailsWithRadiusService method*), 483, 1196, 1910  
`get_by_id()` (*PxGridNode method*), 703, 1415, 2129  
`get_by_id()` (*RadiusServerSequence method*), 495, 1208, 1922  
`get_by_id()` (*RestidStore method*), 504, 1217, 1931  
`get_by_id()` (*SecurityGroups method*), 547, 1259, 1973  
`get_by_id()` (*SecurityGroupsAcls method*), 555, 1267, 1981  
`get_by_id()` (*SecurityGroupToVirtualNetwork method*), 540, 1252, 1966  
`get_by_id()` (*SelfRegisteredPortal method*), 582, 1294, 2008

`get_by_id()` (*SgVnMapping method*), 710, 1422, 2136

`get_by_id()` (*SponsoredGuestPortal method*), 628, 1340, 2054

`get_by_id()` (*SponsorGroup method*), 594, 1306, 2020

`get_by_id()` (*SponsorPortal method*), 611, 1323, 2037

`get_by_id()` (*SupportBundleStatus method*), 636, 1348, 2062

`get_by_id()` (*SxpConnections method*), 519, 1231, 1945

`get_by_id()` (*SxpLocalBindings method*), 526, 1238, 1952

`get_by_id()` (*SxpVpns method*), 534, 1246, 1960

`get_by_id()` (*TacacsCommandSets method*), 648, 1359, 2073

`get_by_id()` (*TacacsExternalServers method*), 654, 1365, 2079

`get_by_id()` (*TacacsProfile method*), 660, 1371, 2085

`get_by_id()` (*TacacsServerSequence method*), 666, 1377, 2091

`get_by_id()` (*TelemetryInformation method*), 672, 1383, 2097

`get_by_id()` (*VirtualNetwork method*), 718, 1431, 2145

`get_by_id()` (*VnVlanMapping method*), 724, 1438, 2152

`get_by_name()` (*ActiveDirectory method*), 56, 748, 1462

`get_by_name()` (*AllowedProtocols method*), 80, 772, 1486

`get_by_name()` (*AncPolicy method*), 89, 781, 1495

`get_by_name()` (*AuthorizationProfile method*), 99, 791, 1505

`get_by_name()` (*CertificateProfile method*), 127, 819, 1533

`get_by_name()` (*CertificateTemplate method*), 133, 825, 1539

`get_by_name()` (*DeviceAdministrationConditions method*), 187, 883, 1597

`get_by_name()` (*Endpoint method*), 682, 1393, 2107

`get_by_name()` (*EndpointIdentityGroup method*), 230, 926, 1640

`get_by_name()` (*ExternalRadiusServer method*), 237, 933, 1647

`get_by_name()` (*GuestUser method*), 279, 975, 1689

`get_by_name()` (*IdentityGroups method*), 323, 1019, 1733

`get_by_name()` (*IdentitySequence method*), 329, 1025, 1739

`get_by_name()` (*InternalUser method*), 336, 1032, 1746

`get_by_name()` (*NetworkAccessConditions method*), 396, 1097, 1811

`get_by_name()` (*NetworkAccessDictionary method*), 404, 1105, 1819

`get_by_name()` (*NetworkAccessDictionaryAttribute method*), 408, 1109, 1823

`get_by_name()` (*NetworkDevice method*), 434, 1136, 1850

`get_by_name()` (*NetworkDeviceGroup method*), 445, 1147, 1861

`get_by_name()` (*NodeDetails method*), 458, 1168, 1882

`get_by_name()` (*PsnNodeDetailsWithRadiusService method*), 482, 1195, 1909

`get_by_name()` (*PxGridNode method*), 702, 1414, 2128

`get_by_name()` (*Repository method*), 512, 1224, 1938

`get_by_name()` (*RestidStore method*), 503, 1216, 1930

`get_by_name()` (*SessionDirectory method*), 591, 1303, 2017

`get_by_name()` (*TacacsCommandSets method*), 648, 1359, 2073

`get_by_name()` (*TacacsExternalServers method*), 653, 1364, 2078

`get_by_name()` (*TacacsProfile method*), 659, 1370, 2084

`get_by_name()` (*TacacsServerSequence method*), 666, 1377, 2091

`get_byod_portal()` (*ByodPortal method*), 116, 808, 1522

`get_byod_portal_by_id()` (*ByodPortal method*), 114, 806, 1520

`get_byod_portal_generator()` (*ByodPortal method*), 117, 809, 1523

`get_certificate_profile()` (*CertificateProfile method*), 129, 821, 1535

`get_certificate_profile_by_id()` (*CertificateProfile method*), 127, 819, 1533

`get_certificate_profile_by_name()` (*CertificateProfile method*), 126, 818, 1532

`get_certificate_profile_generator()` (*CertificateProfile method*), 129, 821, 1535

`get_certificate_template()` (*CertificateTemplate method*), 133, 825, 1539

`get_certificate_template_by_id()` (*CertificateTemplate method*), 133, 825, 1539

`get_certificate_template_by_name()` (*CertificateTemplate method*), 132, 824, 1538

`get_certificate_template_generator()` (*CertificateTemplate method*), 134, 826, 1540

`get_connection_type()` (*Licensing method*), 1040, 1754

`get_csr_by_id()` (*Certificates method*), 140, 832,



1546

`get_csrs()` (*Certificates method*), 135, 827, 1541

`get_csrs_generator()` (*Certificates method*), 136, 828, 1542

`get_deploy_status()` (*IpToSgtMapping method*), 307, 1003, 1717

`get_deploy_status_ip_to_sgt_mapping()` (*IpToSgtMapping method*), 306, 1002, 1716

`get_deploy_status_ip_to_sgt_mapping_group()` (*IpToSgtMappingGroup method*), 315, 1011, 1725

`get_deployment_info()` (*PullDeploymentInfo method*), 489, 1202, 1916

`get_device_admin_authentication_rule_by_id()` (*DeviceAdministrationAuthenticationRules method*), 167, 863, 1577

`get_device_admin_authentication_rules()` (*DeviceAdministrationAuthenticationRules method*), 164, 860, 1574

`get_device_admin_authorization_rule_by_id()` (*DeviceAdministrationAuthorizationRules method*), 180, 876, 1590

`get_device_admin_authorization_rules()` (*DeviceAdministrationAuthorizationRules method*), 178, 874, 1588

`get_device_admin_command_sets()` (*DeviceAdministrationCommandSet method*), 182, 878, 1592

`get_device_admin_condition_by_id()` (*DeviceAdministrationConditions method*), 190, 886, 1600

`get_device_admin_condition_by_name()` (*DeviceAdministrationConditions method*), 186, 882, 1596

`get_device_admin_conditions()` (*DeviceAdministrationConditions method*), 183, 879, 1593

`get_device_admin_conditions_for_authentication()` (*DeviceAdministrationConditions method*), 185, 881, 1595

`get_device_admin_conditions_for_authorization()` (*DeviceAdministrationConditions method*), 186, 882, 1596

`get_device_admin_conditions_for_policy_sets()` (*DeviceAdministrationConditions method*), 189, 885, 1599

`get_device_admin_dictionaries_authentication()` (*DeviceAdministrationDictionaryAttributesList method*), 193, 889, 1603

`get_device_admin_dictionaries_authorization()` (*DeviceAdministrationDictionaryAttributesList method*), 194, 890, 1604

`get_device_admin_dictionaries_policy_sets()` (*DeviceAdministrationDictionaryAttributesList method*), 194, 890, 1604

`get_device_admin_identity_stores()` (*DeviceAdministrationIdentityStores method*), 195, 891, 1605

`get_device_admin_local_exception_rule_by_id()` (*DeviceAdministrationAuthorizationExceptionRules method*), 171, 867, 1581

`get_device_admin_local_exception_rules()` (*DeviceAdministrationAuthorizationExceptionRules method*), 169, 865, 1579

`get_device_admin_network_condition_by_id()` (*DeviceAdministrationNetworkConditions method*), 197, 893, 1607

`get_device_admin_network_conditions()` (*DeviceAdministrationNetworkConditions method*), 196, 892, 1606

`get_device_admin_policy_set_by_id()` (*DeviceAdministrationPolicySet method*), 201, 897, 1611

`get_device_admin_policy_set_global_exception_by_rule_id()` (*DeviceAdministrationAuthorizationGlobalExceptionRules method*), 175, 871, 1585

`get_device_admin_policy_set_global_exception_rules()` (*DeviceAdministrationAuthorizationGlobalExceptionRules method*), 173, 869, 1583

`get_device_admin_policy_sets()` (*DeviceAdministrationPolicySet method*), 199, 895, 1609

`get_device_admin_profiles()` (*DeviceAdministrationProfiles method*), 204, 900, 1614

`get_device_admin_service_names()` (*DeviceAdministrationServiceNames method*), 205, 901, 1615

`get_device_admin_time_condition_by_id()` (*DeviceAdministrationTimeDateConditions method*), 208, 904, 1618

`get_device_admin_time_conditions()` (*DeviceAdministrationTimeDateConditions method*), 205, 901, 1615

`get_downloadable_acl()` (*DownloadableAcl method*), 214, 910, 1624

`get_downloadable_acl_by_id()` (*DownloadableAcl method*), 212, 908, 1622

`get_downloadable_acl_generator()` (*DownloadableAcl method*), 214, 910, 1624

`get_egress_matrices()` (*TrustSecConfiguration method*), 676, 1387, 2101

`get_egress_matrix_cell()` (*EgressMatrixCell method*), 221, 917, 1631

`get_egress_matrix_cell_by_id()` (*EgressMatrixCell method*), 219, 915, 1629

`get_egress_matrix_cell_generator()` (*EgressMatrixCell method*), 222, 918, 1632

`get_egress_policies()` (*TrustSecConfiguration method*), 676, 1387, 2101

`get_endpoint_by_id()` (*Endpoint method*), 682, 1393, 2107

`get_endpoint_by_mac_address()` (*Mdm method*), 345, 1046, 1760

`get_endpoint_by_name()` (*Endpoint method*), 682, 1393, 2107

`get_endpoint_group_by_id()` (*EndpointIdentityGroup method*), 230, 926, 1640

`get_endpoint_group_by_name()` (*EndpointIdentityGroup method*), 229, 925, 1639

`get_endpoint_groups()` (*EndpointIdentityGroup method*), 232, 928, 1642

`get_endpoint_groups_generator()` (*EndpointIdentityGroup method*), 233, 929, 1643

`get_endpoints()` (*Endpoint method*), 686, 1397, 2111

`get_endpoints()` (*Mdm method*), 344, 1045, 1759

`get_endpoints_by_os_type()` (*Mdm method*), 346, 1047, 1761

`get_endpoints_by_type()` (*Mdm method*), 345, 1046, 1760

`get_endpoints_generator()` (*Endpoint method*), 687, 1398, 2112

`get_eval_license_info()` (*Licensing method*), 1041, 1755

`get_external_radius_server()` (*ExternalRadiusServer method*), 240, 936, 1650

`get_external_radius_server_by_id()` (*ExternalRadiusServer method*), 237, 933, 1647

`get_external_radius_server_by_name()` (*ExternalRadiusServer method*), 237, 933, 1647

`get_external_radius_server_generator()` (*ExternalRadiusServer method*), 240, 936, 1650

`get_failure_reasons()` (*Misc method*), 353, 1054, 1768

`get_failures()` (*RadiusFailure method*), 492, 1205, 1919

`get_feature_to_tier_mapping()` (*Licensing method*), 1041, 1755

`get_files()` (*Repository method*), 514, 1226, 1940

`get_filter_policy()` (*FilterPolicy method*), 245, 941, 1655

`get_filter_policy_by_id()` (*FilterPolicy method*), 243, 939, 1653

`get_filter_policy_generator()` (*FilterPolicy method*), 246, 942, 1656

`get_groups_by_domain()` (*ActiveDirectory method*), 60, 752, 1466

`get_guest_location()` (*GuestLocation method*), 249, 945, 1659

`get_guest_location_by_id()` (*GuestLocation method*), 248, 944, 1658

`get_guest_location_generator()` (*GuestLocation method*), 250, 946, 1660

`get_guest_smtp_notification_settings()` (*GuestSmtpNotificationConfiguration method*), 255, 951, 1665

`get_guest_smtp_notification_settings_by_id()` (*GuestSmtpNotificationConfiguration method*), 253, 949, 1663

`get_guest_smtp_notification_settings_generator()` (*GuestSmtpNotificationConfiguration method*), 256, 952, 1666

`get_guest_ssid()` (*GuestSsid method*), 261, 957, 1671

`get_guest_ssid_by_id()` (*GuestSsid method*), 259, 955, 1669

`get_guest_ssid_generator()` (*GuestSsid method*), 262, 958, 1672

`get_guest_type()` (*GuestType method*), 270, 966, 1680

`get_guest_type_by_id()` (*GuestType method*), 268, 964, 1678

`get_guest_type_generator()` (*GuestType method*), 271, 967, 1681

`get_guest_user_by_id()` (*GuestUser method*), 283, 979, 1693

`get_guest_user_by_name()` (*GuestUser method*), 278, 974, 1688

`get_guest_users()` (*GuestUser method*), 286, 982, 1696

`get_guest_users_generator()` (*GuestUser method*), 287, 983, 1697

`get_healths()` (*SystemHealth method*), 642, 1353, 2067

`get_hotspot_portal()` (*HotspotPortal method*), 301, 997, 1711

`get_hotspot_portal_by_id()` (*HotspotPortal method*), 299, 995, 1709

`get_hotspot_portal_generator()` (*HotspotPortal method*), 302, 998, 1712

`get_identity_group_by_id()` (*IdentityGroups method*), 323, 1019, 1733

`get_identity_group_by_name()` (*IdentityGroups method*), 323, 1019, 1733

`get_identity_groups()` (*IdentityGroups method*), 325, 1021, 1735

`get_identity_groups_generator()` (*IdentityGroups method*), 326, 1022, 1736

`get_identity_sequence()` (*IdentitySequence method*), 331, 1027, 1741

`get_identity_sequence_by_id()` (*IdentitySequence method*), 329, 1025, 1739

`get_identity_sequence_by_name()` (*IdentitySequence method*), 329, 1025, 1739

`get_identity_sequence_generator()` (*IdentitySequence method*), 331, 1027, 1741

*titySequence method*), 332, 1028, 1742  
get\_interfaces() (*NodeServices method*), 1163, 1877  
get\_internal\_user() (*InternalUser method*), 340, 1036, 1750  
get\_internal\_user\_by\_id() (*InternalUser method*), 338, 1034, 1748  
get\_internal\_user\_by\_name() (*InternalUser method*), 335, 1031, 1745  
get\_internal\_user\_generator() (*InternalUser method*), 341, 1037, 1751  
get\_ip\_to\_sgt\_mapping() (*IpToSgtMapping method*), 309, 1005, 1719  
get\_ip\_to\_sgt\_mapping\_by\_id() (*IpToSgtMapping method*), 307, 1003, 1717  
get\_ip\_to\_sgt\_mapping\_generator() (*IpToSgtMapping method*), 310, 1006, 1720  
get\_ip\_to\_sgt\_mapping\_group() (*IpToSgtMappingGroup method*), 318, 1014, 1728  
get\_ip\_to\_sgt\_mapping\_group\_by\_id() (*IpToSgtMappingGroup method*), 316, 1012, 1726  
get\_ip\_to\_sgt\_mapping\_group\_generator() (*IpToSgtMappingGroup method*), 319, 1015, 1729  
get\_ise\_version\_and\_patch() (*VersionAndPatch method*), 678, 1389, 2103  
get\_last\_config\_backup\_status() (*BackupAndRestore method*), 121, 813, 1527  
get\_last\_status() (*BackupAndRestore method*), 121, 813, 1527  
get\_mnt\_version() (*Misc method*), 352, 1053, 1767  
get\_my\_device\_portal() (*MyDevicePortal method*), 366, 1067, 1781  
get\_my\_device\_portal\_by\_id() (*MyDevicePortal method*), 364, 1065, 1779  
get\_my\_device\_portal\_generator() (*MyDevicePortal method*), 367, 1068, 1782  
get\_native\_suppllicant\_profile() (*NativeSuppllicantProfile method*), 372, 1073, 1787  
get\_native\_suppllicant\_profile\_by\_id() (*NativeSuppllicantProfile method*), 370, 1071, 1785  
get\_native\_suppllicant\_profile\_generator() (*NativeSuppllicantProfile method*), 373, 1074, 1788  
get\_nbar\_app\_by\_id() (*NbarApp method*), 694, 1405, 2119  
get\_nbar\_apps() (*NbarApp method*), 691, 1402, 2116  
get\_nbar\_apps\_generator() (*NbarApp method*), 692, 1403, 2117  
get\_network\_access\_authentication\_rule\_by\_id() (*NetworkAccessAuthenticationRules method*), 376, 1077, 1791  
get\_network\_access\_authentication\_rules() (*NetworkAccessAuthenticationRules method*), 374, 1075, 1789  
get\_network\_access\_authorization\_rule\_by\_id() (*NetworkAccessAuthorizationRules method*), 389, 1090, 1804  
get\_network\_access\_authorization\_rules() (*NetworkAccessAuthorizationRules method*), 387, 1088, 1802  
get\_network\_access\_condition\_by\_id() (*NetworkAccessConditions method*), 399, 1100, 1814  
get\_network\_access\_condition\_by\_name() (*NetworkAccessConditions method*), 395, 1096, 1810  
get\_network\_access\_conditions() (*NetworkAccessConditions method*), 392, 1093, 1807  
get\_network\_access\_conditions\_for\_authentication\_rule() (*NetworkAccessConditions method*), 394, 1095, 1809  
get\_network\_access\_conditions\_for\_authorization\_rule() (*NetworkAccessConditions method*), 395, 1096, 1810  
get\_network\_access\_conditions\_for\_policy\_sets() (*NetworkAccessConditions method*), 398, 1099, 1813  
get\_network\_access\_dictionaries() (*NetworkAccessDictionary method*), 402, 1103, 1817  
get\_network\_access\_dictionaries\_authentication() (*NetworkAccessDictionaryAttributesList method*), 410, 1111, 1825  
get\_network\_access\_dictionaries\_authorization() (*NetworkAccessDictionaryAttributesList method*), 411, 1112, 1826  
get\_network\_access\_dictionaries\_policy\_set() (*NetworkAccessDictionaryAttributesList method*), 411, 1112, 1826  
get\_network\_access\_dictionary\_attribute\_by\_name() (*NetworkAccessDictionaryAttribute method*), 407, 1108, 1822  
get\_network\_access\_dictionary\_attributes\_by\_dictionary() (*NetworkAccessDictionaryAttribute method*), 406, 1107, 1821  
get\_network\_access\_dictionary\_by\_name() (*NetworkAccessDictionary method*), 404, 1105, 1819  
get\_network\_access\_identity\_stores() (*NetworkAccessIdentityStores method*), 412, 1113, 1827  
get\_network\_access\_local\_exception\_rule\_by\_id()

(*NetworkAccessAuthorizationExceptionRules*  
*method*), 381, 1082, 1796  
 get\_network\_access\_local\_exception\_rules() (*NetworkAccessAuthorizationExceptionRules*  
*method*), 379, 1080, 1794  
 get\_network\_access\_network\_condition\_by\_id() (*NetworkAccessNetworkConditions*  
*method*), 414, 1115, 1829  
 get\_network\_access\_network\_conditions() (*NetworkAccessNetworkConditions*  
*method*), 413, 1114, 1828  
 get\_network\_access\_policy\_set\_by\_id() (*NetworkAccessPolicySet*  
*method*), 418, 1120, 1834  
 get\_network\_access\_policy\_set\_global\_exception\_rules() (*NetworkAccessAuthorizationGlobalExceptionRules*  
*method*), 385, 1086, 1800  
 get\_network\_access\_policy\_set\_global\_exception\_rules() (*NetworkAccessAuthorizationGlobalExceptionRules*  
*method*), 383, 1084, 1798  
 get\_network\_access\_policy\_sets() (*NetworkAccessPolicySet*  
*method*), 416, 1118, 1832  
 get\_network\_access\_profiles() (*NetworkAccessProfiles*  
*method*), 421, 1123, 1837  
 get\_network\_access\_security\_groups() (*NetworkAccessSecurityGroups*  
*method*), 422, 1124, 1838  
 get\_network\_access\_service\_names() (*NetworkAccessServiceNames*  
*method*), 422, 1124, 1838  
 get\_network\_access\_time\_condition\_by\_id() (*NetworkAccessTimeDateConditions*  
*method*), 426, 1128, 1842  
 get\_network\_access\_time\_conditions() (*NetworkAccessTimeDateConditions*  
*method*), 423, 1125, 1839  
 get\_network\_device() (*NetworkDevice*  
*method*), 439, 1141, 1855  
 get\_network\_device\_by\_id() (*NetworkDevice*  
*method*), 436, 1138, 1852  
 get\_network\_device\_by\_name() (*NetworkDevice*  
*method*), 434, 1136, 1850  
 get\_network\_device\_generator() (*NetworkDevice*  
*method*), 440, 1142, 1856  
 get\_network\_device\_group() (*NetworkDeviceGroup*  
*method*), 447, 1149, 1863  
 get\_network\_device\_group\_by\_id() (*NetworkDeviceGroup*  
*method*), 445, 1147, 1861  
 get\_network\_device\_group\_by\_name() (*NetworkDeviceGroup*  
*method*), 444, 1146, 1860  
 get\_network\_device\_group\_generator() (*NetworkDeviceGroup*  
*method*), 448, 1150, 1864  
 get\_node\_detail\_by\_id() (*NodeDetails*  
*method*), 459, 1168, 1882  
 get\_node\_detail\_by\_name() (*NodeDetails*  
*method*), 458, 1168, 1882  
 get\_node\_details() (*NodeDeployment*  
*method*), 452, 1154, 1868  
 get\_node\_details() (*NodeDetails*  
*method*), 459, 1169, 1883  
 get\_node\_details\_generator() (*NodeDetails*  
*method*), 460, 1170, 1884  
 get\_node\_group() (*NodeGroup*  
*method*), 454, 1159, 1873  
 get\_node\_groups() (*NodeGroup*  
*method*), 454, 1158, 1872  
 get\_node\_replication\_status() (*ReplicationStatus*  
*method*), 509  
 get\_nodes() (*NodeDeployment*  
*method*), 450, 1152, 1866  
 get\_nodes() (*NodeGroup*  
*method*), 1162, 1876  
 get\_pan\_ha\_status() (*PanHa*  
*method*), 462, 1172, 1886  
 get\_performances() (*SystemHealth*  
*method*), 642, 1354, 2068  
 get\_portal\_by\_id() (*Portal*  
*method*), 696, 1407, 2121  
 get\_portal\_global\_setting\_by\_id() (*PortalGlobalSetting*  
*method*), 464, 1177, 1891  
 get\_portal\_global\_settings() (*PortalGlobalSetting*  
*method*), 465, 1179, 1893  
 get\_portal\_global\_settings\_generator() (*PortalGlobalSetting*  
*method*), 466, 1180, 1894  
 get\_portal\_theme\_by\_id() (*PortalTheme*  
*method*), 469, 1182, 1896  
 get\_portal\_themes() (*PortalTheme*  
*method*), 471, 1184, 1898  
 get\_portal\_themes\_generator() (*PortalTheme*  
*method*), 472, 1185, 1899  
 get\_portals() (*Portal*  
*method*), 697, 1408, 2122  
 get\_portals\_generator() (*Portal*  
*method*), 698, 1409, 2123  
 get\_posture\_count() (*Misc*  
*method*), 348, 1049, 1763  
 get\_profiler\_count() (*Misc*  
*method*), 349, 1050, 1764  
 get\_profiler\_probe\_config() (*NodeServices*  
*method*), 1165, 1879  
 get\_profiler\_profile\_by\_id() (*ProfilerProfile*  
*method*), 475, 1188, 1902  
 get\_profiler\_profiles() (*ProfilerProfile*  
*method*), 476, 1189, 1903  
 get\_profiler\_profiles\_generator() (*ProfilerProfile*  
*method*), 477, 1190, 1904  
 get\_profiles() (*Profiler*  
*method*), 474, 1187, 1901  
 get\_proxy\_connection() (*Proxy*  
*method*), 1410,



- 2124
- `get_px_grid_node()` (*PxGridNode method*), 703, 1415, 2129
- `get_px_grid_node_by_id()` (*PxGridNode method*), 702, 1415, 2129
- `get_px_grid_node_by_name()` (*PxGridNode method*), 701, 1414, 2128
- `get_px_grid_node_generator()` (*PxGridNode method*), 703, 1416, 2130
- `get_radius_server_sequence()` (*RadiusServerSequence method*), 497, 1210, 1924
- `get_radius_server_sequence_by_id()` (*RadiusServerSequence method*), 495, 1208, 1922
- `get_radius_server_sequence_generator()` (*RadiusServerSequence method*), 498, 1211, 1925
- `get_registration_info()` (*Licensing method*), 1042, 1756
- `get_rejected()` (*Endpoint method*), 682, 1393, 2107
- `get_rejected_endpoints()` (*Endpoint method*), 681, 1392, 2106
- `get_repositories()` (*Repository method*), 510, 1222, 1936
- `get_repository()` (*Repository method*), 511, 1224, 1938
- `get_repository_files()` (*Repository method*), 513, 1226, 1940
- `get_rest_id_store()` (*RestidStore method*), 506, 1219, 1933
- `get_rest_id_store_by_id()` (*RestidStore method*), 504, 1217, 1931
- `get_rest_id_store_by_name()` (*RestidStore method*), 502, 1215, 1929
- `get_rest_id_store_generator()` (*RestidStore method*), 507, 1220, 1934
- `get_security_group_acls()` (*TrustSecConfiguration method*), 675, 1386, 2100
- `get_security_group_by_id()` (*SecurityGroups method*), 547, 1259, 1973
- `get_security_groups()` (*SecurityGroups method*), 549, 1261, 1975
- `get_security_groups()` (*TrustSecConfiguration method*), 675, 1386, 2100
- `get_security_groups_acl()` (*SecurityGroupsAcls method*), 557, 1269, 1983
- `get_security_groups_acl_by_id()` (*SecurityGroupsAcls method*), 555, 1267, 1981
- `get_security_groups_acl_generator()` (*SecurityGroupsAcls method*), 558, 1270, 1984
- `get_security_groups_generator()` (*SecurityGroups method*), 550, 1262, 1976
- `get_security_groups_to_vn_to_vlan()` (*SecurityGroupToVirtualNetwork method*), 541, 1253, 1967
- `get_security_groups_to_vn_to_vlan_by_id()` (*SecurityGroupToVirtualNetwork method*), 539, 1251, 1965
- `get_security_groups_to_vn_to_vlan_generator()` (*SecurityGroupToVirtualNetwork method*), 542, 1254, 1968
- `get_self_registered_portal_by_id()` (*SelfRegisteredPortal method*), 582, 1294, 2008
- `get_self_registered_portals()` (*SelfRegisteredPortal method*), 584, 1296, 2010
- `get_self_registered_portals_generator()` (*SelfRegisteredPortal method*), 585, 1297, 2011
- `get_session_auth_list()` (*Misc method*), 348, 1049, 1763
- `get_session_by_ip_address()` (*SessionDirectory method*), 589, 1301, 2015
- `get_session_by_mac_address()` (*SessionDirectory method*), 589, 1301, 2015
- `get_session_service_node()` (*PsnNodeDetailsWithRadiusService method*), 483, 1196, 1910
- `get_session_service_node_by_id()` (*PsnNodeDetailsWithRadiusService method*), 482, 1195, 1909
- `get_session_service_node_by_name()` (*PsnNodeDetailsWithRadiusService method*), 482, 1195, 1909
- `get_session_service_node_generator()` (*PsnNodeDetailsWithRadiusService method*), 483, 1196, 1910
- `get_sessions()` (*SessionDirectory method*), 588, 1300, 2014
- `get_sessions_by_endpoint_ip()` (*Misc method*), 351, 1052, 1766
- `get_sessions_by_mac()` (*Misc method*), 349, 1050, 1764
- `get_sessions_by_nas_ip()` (*Misc method*), 350, 1051, 1765
- `get_sessions_by_session_id()` (*Misc method*), 351, 1052, 1766
- `get_sessions_by_username()` (*Misc method*), 350, 1051, 1765
- `get_sessions_for_recovery()` (*SessionDirectory method*), 588, 1300, 2014
- `get_sg_vn_mapping_by_id()` (*SgVnMapping method*), 709, 1422, 2136
- `get_sg_vn_mappings()` (*SgVnMapping method*), 705, 1417, 2131
- `get_sg_vn_mappings_generator()` (*SgVnMapping method*), 706, 1418, 2132
- `get_smart_state()` (*Licensing method*), 1043, 1757
- `get_sms_provider()` (*SmsProvider method*), 515, 1227, 1941
- `get_sms_provider_generator()` (*SmsProvider*

*method*), 516, 1228, 1942

`get_sponsor_group()` (*SponsorGroup method*), 596, 1308, 2022

`get_sponsor_group_by_id()` (*SponsorGroup method*), 594, 1306, 2020

`get_sponsor_group_generator()` (*SponsorGroup method*), 597, 1309, 2023

`get_sponsor_group_member()` (*SponsorGroupMember method*), 600, 1312, 2026

`get_sponsor_group_member_generator()` (*SponsorGroupMember method*), 601, 1313, 2027

`get_sponsor_portal()` (*SponsorPortal method*), 613, 1325, 2039

`get_sponsor_portal_by_id()` (*SponsorPortal method*), 611, 1323, 2037

`get_sponsor_portal_generator()` (*SponsorPortal method*), 614, 1326, 2040

`get_sponsored_guest_portal_by_id()` (*SponsoredGuestPortal method*), 627, 1339, 2053

`get_sponsored_guest_portals()` (*SponsoredGuestPortal method*), 629, 1341, 2055

`get_sponsored_guest_portals_generator()` (*SponsoredGuestPortal method*), 630, 1342, 2056

`get_support_bundle_status()` (*SupportBundleStatus method*), 636, 1348, 2062

`get_support_bundle_status_by_id()` (*SupportBundleStatus method*), 635, 1347, 2061

`get_support_bundle_status_generator()` (*SupportBundleStatus method*), 636, 1348, 2062

`get_sxp_connections()` (*SxpConnections method*), 520, 1232, 1946

`get_sxp_connections_by_id()` (*SxpConnections method*), 518, 1230, 1944

`get_sxp_connections_generator()` (*SxpConnections method*), 521, 1233, 1947

`get_sxp_interface()` (*NodeServices method*), 1164, 1878

`get_sxp_local_bindings()` (*SxpLocalBindings method*), 528, 1240, 1954

`get_sxp_local_bindings_by_id()` (*SxpLocalBindings method*), 526, 1238, 1952

`get_sxp_local_bindings_generator()` (*SxpLocalBindings method*), 529, 1241, 1955

`get_sxp_vpn_by_id()` (*SxpVpns method*), 533, 1245, 1959

`get_sxp_vpns()` (*SxpVpns method*), 534, 1246, 1960

`get_sxp_vpns_generator()` (*SxpVpns method*), 535, 1247, 1961

`get_system_certificate_by_id()` (*Certificates method*), 149, 844, 1558

`get_system_certificates()` (*Certificates method*), 147, 842, 1556

`get_system_certificates_generator()` (*Certificates method*), 148, 843, 1557

`get_tacacs_command_sets()` (*TacacsCommandSets method*), 649, 1360, 2074

`get_tacacs_command_sets_by_id()` (*TacacsCommandSets method*), 648, 1359, 2073

`get_tacacs_command_sets_by_name()` (*TacacsCommandSets method*), 647, 1358, 2072

`get_tacacs_command_sets_generator()` (*TacacsCommandSets method*), 650, 1361, 2075

`get_tacacs_external_servers()` (*TacacsExternalServers method*), 655, 1366, 2080

`get_tacacs_external_servers_by_id()` (*TacacsExternalServers method*), 653, 1364, 2078

`get_tacacs_external_servers_by_name()` (*TacacsExternalServers method*), 653, 1364, 2078

`get_tacacs_external_servers_generator()` (*TacacsExternalServers method*), 656, 1367, 2081

`get_tacacs_profile()` (*TacacsProfile method*), 661, 1372, 2086

`get_tacacs_profile_by_id()` (*TacacsProfile method*), 659, 1370, 2084

`get_tacacs_profile_by_name()` (*TacacsProfile method*), 659, 1370, 2084

`get_tacacs_profile_generator()` (*TacacsProfile method*), 662, 1373, 2087

`get_tacacs_server_sequence()` (*TacacsServerSequence method*), 668, 1379, 2093

`get_tacacs_server_sequence_by_id()` (*TacacsServerSequence method*), 666, 1377, 2091

`get_tacacs_server_sequence_by_name()` (*TacacsServerSequence method*), 665, 1376, 2090

`get_tacacs_server_sequence_generator()` (*TacacsServerSequence method*), 669, 1380, 2094

`get_task_status()` (*Tasks method*), 711, 1424, 2138

`get_task_status_by_id()` (*Tasks method*), 712, 1424, 2138

`get_telemetry_info_by_id()` (*TelemetryInformation method*), 671, 1382, 2096

`get_telemetry_information()` (*TelemetryInformation method*), 672, 1383, 2097

`get_telemetry_information_generator()` (*TelemetryInformation method*), 673, 1384,

2098

`get_tier_state_info()` (*Licensing method*), 1044, 1758

`get_transport_gateway()` (*Telemetry method*), 1425, 2139

`get_trusted_certificate_by_id()` (*Certificates method*), 156, 851, 1565

`get_trusted_certificates()` (*Certificates method*), 152, 847, 1561

`get_trusted_certificates_generator()` (*Certificates method*), 153, 848, 1562

`get_trusted_domains()` (*ActiveDirectory method*), 59, 751, 1465

`get_user_group_by_user_name()` (*SessionDirectory method*), 590, 1302, 2016

`get_user_groups()` (*ActiveDirectory method*), 56, 748, 1462

`get_user_groups()` (*SessionDirectory method*), 590, 1302, 2016

`get_version()` (*AciBindings method*), 36, 729, 1443

`get_version()` (*AciSettings method*), 41, 733, 1447

`get_version()` (*ActiveDirectory method*), 65, 757, 1471

`get_version()` (*AdminUser method*), 69, 761, 1475

`get_version()` (*AllowedProtocols method*), 86, 778, 1492

`get_version()` (*AncEndpoint method*), 47, 739, 1453

`get_version()` (*AncPolicy method*), 94, 786, 1500

`get_version()` (*AuthorizationProfile method*), 105, 797, 1511

`get_version()` (*ByodPortal method*), 119, 811, 1525

`get_version()` (*CertificateProfile method*), 131, 823, 1537

`get_version()` (*CertificateTemplate method*), 135, 827, 1541

`get_version()` (*ClearThreatsAndVulnerabilities method*), 161, 857, 1571

`get_version()` (*DownloadableAcl method*), 216, 912, 1626

`get_version()` (*EgressMatrixCell method*), 224, 920, 1634

`get_version()` (*Endpoint method*), 689, 1400, 2114

`get_version()` (*EndpointCertificate method*), 228, 924, 1638

`get_version()` (*EndpointIdentityGroup method*), 234, 930, 1644

`get_version()` (*ExternalRadiusServer method*), 242, 938, 1652

`get_version()` (*FilterPolicy method*), 247, 943, 1657

`get_version()` (*GuestLocation method*), 251, 947, 1661

`get_version()` (*GuestSmtpNotificationConfiguration method*), 258, 954, 1668

`get_version()` (*GuestSsid method*), 264, 960, 1674

`get_version()` (*GuestType method*), 273, 969, 1683

`get_version()` (*GuestUser method*), 289, 985, 1699

`get_version()` (*HotspotPortal method*), 304, 1000, 1714

`get_version()` (*IdentityGroups method*), 327, 1023, 1737

`get_version()` (*IdentitySequence method*), 334, 1030, 1744

`get_version()` (*InternalUser method*), 344, 1040, 1754

`get_version()` (*IpToSgtMapping method*), 312, 1008, 1722

`get_version()` (*IpToSgtMappingGroup method*), 320, 1016, 1730

`get_version()` (*MyDevicePortal method*), 369, 1070, 1784

`get_version()` (*NativeSupplicantProfile method*), 373, 1074, 1788

`get_version()` (*NetworkDevice method*), 442, 1144, 1858

`get_version()` (*NetworkDeviceGroup method*), 449, 1151, 1865

`get_version()` (*NodeDetails method*), 461, 1171, 1885

`get_version()` (*Portal method*), 699, 1410, 2124

`get_version()` (*PortalGlobalSetting method*), 467, 1181, 1895

`get_version()` (*PortalTheme method*), 473, 1186, 1900

`get_version()` (*ProfilerProfile method*), 478, 1191, 1905

`get_version()` (*PsnNodeDetailsWithRadiusService method*), 484, 1197, 1911

`get_version()` (*PullDeploymentInfo method*), 490, 1203, 1917

`get_version()` (*PxGridNode method*), 704, 1416, 2130

`get_version()` (*PxGridSettings method*), 491, 1204, 1918

`get_version()` (*RadiusServerSequence method*), 500, 1213, 1927

`get_version()` (*RestidStore method*), 509, 1222, 1936

`get_version()` (*SecurityGroups method*), 552, 1264, 1978

`get_version()` (*SecurityGroupsAcls method*), 560, 1272, 1986

`get_version()` (*SecurityGroupToVirtualNetwork method*), 544, 1256, 1970

`get_version()` (*SelfRegisteredPortal method*), 587, 1299, 2013

`get_version()` (*SmsProvider method*), 517, 1229, 1943

`get_version()` (*SponsoredGuestPortal method*),

632, 1344, 2058  
 get\_version() (*SponsorGroup* method), 599, 1311, 2025  
 get\_version() (*SponsorGroupMember* method), 602, 1314, 2028  
 get\_version() (*SponsorPortal* method), 616, 1328, 2042  
 get\_version() (*SupportBundleDownload* method), 634, 1346, 2060  
 get\_version() (*SupportBundleStatus* method), 637, 1349, 2063  
 get\_version() (*SupportBundleTriggerConfiguration* method), 640, 1352, 2066  
 get\_version() (*SxpConnections* method), 523, 1235, 1949  
 get\_version() (*SxpLocalBindings* method), 531, 1243, 1957  
 get\_version() (*SxpVpns* method), 537, 1249, 1963  
 get\_version() (*SystemCertificate* method), 645, 1356, 2070  
 get\_version() (*TacacsCommandSets* method), 651, 1362, 2076  
 get\_version() (*TacacsExternalServers* method), 658, 1369, 2083  
 get\_version() (*TacacsProfile* method), 663, 1374, 2088  
 get\_version() (*TacacsServerSequence* method), 670, 1381, 2095  
 get\_version() (*TelemetryInformation* method), 674, 1385, 2099  
 get\_version\_info() (*VersionInfo* method), 678, 1389, 2103  
 get\_virtual\_network\_by\_id() (*VirtualNetwork* method), 717, 1431, 2145  
 get\_virtual\_networks() (*VirtualNetwork* method), 713, 1426, 2140  
 get\_virtual\_networks\_generator() (*VirtualNetwork* method), 714, 1427, 2141  
 get\_vn\_vlan\_mapping\_by\_id() (*VnVlanMapping* method), 724, 1438, 2152  
 get\_vn\_vlan\_mappings() (*VnVlanMapping* method), 719, 1433, 2147  
 get\_vn\_vlan\_mappings\_generator() (*VnVlanMapping* method), 720, 1434, 2148  
 GuestLocation (class in *ciscoisesdk.api.v3\_1\_0.guest\_location*), 248  
 GuestLocation (class in *ciscoisesdk.api.v3\_1\_1.guest\_location*), 944  
 GuestLocation (class in *ciscoisesdk.api.v3\_1\_patch\_1.guest\_location*), 1658  
 GuestSmtNotificationConfiguration (class in *ciscoisesdk.api.v3\_1\_0.guest\_smt\_notification\_configuration*), 252

GuestSmtNotificationConfiguration (class in *ciscoisesdk.api.v3\_1\_1.guest\_smt\_notification\_configuration*), 948  
 GuestSmtNotificationConfiguration (class in *ciscoisesdk.api.v3\_1\_patch\_1.guest\_smt\_notification\_configuration*), 1662  
 GuestSsid (class in *ciscoisesdk.api.v3\_1\_0.guest\_ssid*), 259  
 GuestSsid (class in *ciscoisesdk.api.v3\_1\_1.guest\_ssid*), 955  
 GuestSsid (class in *ciscoisesdk.api.v3\_1\_patch\_1.guest\_ssid*), 1669  
 GuestType (class in *ciscoisesdk.api.v3\_1\_0.guest\_type*), 265  
 GuestType (class in *ciscoisesdk.api.v3\_1\_1.guest\_type*), 961  
 GuestType (class in *ciscoisesdk.api.v3\_1\_patch\_1.guest\_type*), 1675  
 GuestUser (class in *ciscoisesdk.api.v3\_1\_0.guest\_user*), 274  
 GuestUser (class in *ciscoisesdk.api.v3\_1\_1.guest\_user*), 970  
 GuestUser (class in *ciscoisesdk.api.v3\_1\_patch\_1.guest\_user*), 1684

## H

has\_path() (*MyDict* method), 2154  
 headers() (*RestResponse* property), 2155  
 HotspotPortal (class in *ciscoisesdk.api.v3\_1\_0.hotspot\_portal*), 291  
 HotspotPortal (class in *ciscoisesdk.api.v3\_1\_1.hotspot\_portal*), 987  
 HotspotPortal (class in *ciscoisesdk.api.v3\_1\_patch\_1.hotspot\_portal*), 1701

## I

IdentityGroups (class in *ciscoisesdk.api.v3\_1\_0.identity\_groups*), 322  
 IdentityGroups (class in *ciscoisesdk.api.v3\_1\_1.identity\_groups*), 1018  
 IdentityGroups (class in *ciscoisesdk.api.v3\_1\_patch\_1.identity\_groups*), 1732  
 IdentitySequence (class in *ciscoisesdk.api.v3\_1\_0.identity\_sequence*), 328  
 IdentitySequence (class in *ciscoisesdk.api.v3\_1\_1.identity\_sequence*), 1024  
 IdentitySequence (class in *ciscoisesdk.api.v3\_1\_patch\_1.identity\_sequence*), 1738  
 IdentityServicesEngineAPI (class in *ciscoisesdk*), 28



import\_system\_certificate() (*Certificates method*), 145, 840, 1554  
 import\_trust\_certificate() (*Certificates method*), 154, 850, 1564  
 initialize\_api\_wrappers() (*IdentityServicesEngineAPI method*), 30  
 initialize\_authentication() (*IdentityServicesEngineAPI method*), 30  
 initialize\_sessions() (*IdentityServicesEngineAPI method*), 30  
 install\_hotpatch() (*Patching method*), 1174, 1888  
 install\_patch() (*Patching method*), 1175, 1889  
 InternalUser (class in *ciscoisesdk.api.v3\_1\_0.internal\_user*), 334  
 InternalUser (class in *ciscoisesdk.api.v3\_1\_1.internal\_user*), 1030  
 InternalUser (class in *ciscoisesdk.api.v3\_1\_patch\_1.internal\_user*), 1744  
 IpToSgtMapping (class in *ciscoisesdk.api.v3\_1\_0.ip\_to\_sgt\_mapping*), 304  
 IpToSgtMapping (class in *ciscoisesdk.api.v3\_1\_1.ip\_to\_sgt\_mapping*), 1000  
 IpToSgtMapping (class in *ciscoisesdk.api.v3\_1\_patch\_1.ip\_to\_sgt\_mapping*), 1714  
 IpToSgtMappingGroup (class in *ciscoisesdk.api.v3\_1\_0.ip\_to\_sgt\_mapping\_group*), 314  
 IpToSgtMappingGroup (class in *ciscoisesdk.api.v3\_1\_1.ip\_to\_sgt\_mapping\_group*), 1010  
 IpToSgtMappingGroup (class in *ciscoisesdk.api.v3\_1\_patch\_1.ip\_to\_sgt\_mapping\_group*), 1724  
 is\_encoded\_auth() (*IdentityServicesEngineAPI method*), 30  
 is\_password() (*IdentityServicesEngineAPI method*), 30  
 is\_user\_member\_of\_groups() (*ActiveDirectory method*), 58, 750, 1464

## J

join\_domain() (*ActiveDirectory method*), 62, 754, 1468  
 join\_domain\_with\_all\_nodes() (*ActiveDirectory method*), 59, 751, 1465

## L

leave\_domain() (*ActiveDirectory method*), 57, 749, 1463  
 leave\_domain\_with\_all\_nodes() (*ActiveDirectory method*), 60, 752, 1466

Licensing (class in *ciscoisesdk.api.v3\_1\_1.licensing*), 1040  
 Licensing (class in *ciscoisesdk.api.v3\_1\_patch\_1.licensing*), 1754  
 list\_installed\_hotpatches() (*Patching method*), 1173, 1887  
 list\_installed\_patches() (*Patching method*), 1175, 1889  
 load\_groups\_from\_domain() (*ActiveDirectory method*), 57, 749, 1463  
 lookup\_service() (*Consumer method*), 163, 859, 1573

## M

make\_primary() (*NodeDeployment method*), 1155, 1869  
 make\_standalone() (*NodeDeployment method*), 1156, 1870  
 MalformedRequest, 2156  
 Mdm (class in *ciscoisesdk.api.v3\_1\_0.mdm*), 344  
 Mdm (class in *ciscoisesdk.api.v3\_1\_1.mdm*), 1045  
 Mdm (class in *ciscoisesdk.api.v3\_1\_patch\_1.mdm*), 1759  
 message (*ApiError attribute*), 2155  
 Misc (class in *ciscoisesdk.api.v3\_1\_0.misc*), 347  
 Misc (class in *ciscoisesdk.api.v3\_1\_1.misc*), 1048  
 Misc (class in *ciscoisesdk.api.v3\_1\_patch\_1.misc*), 1762  
 mnt\_base\_url() (*IdentityServicesEngineAPI property*), 31  
 monitor\_bulk\_status() (*AncEndpoint method*), 48, 740, 1454  
 monitor\_bulk\_status() (*AncPolicy method*), 95, 787, 1501  
 monitor\_bulk\_status() (*EgressMatrixCell method*), 225, 921, 1635  
 monitor\_bulk\_status() (*Endpoint method*), 691, 1402, 2116  
 monitor\_bulk\_status() (*GuestUser method*), 291, 987, 1701  
 monitor\_bulk\_status() (*IpToSgtMapping method*), 313, 1009, 1723  
 monitor\_bulk\_status() (*IpToSgtMappingGroup method*), 322, 1018, 1732  
 monitor\_bulk\_status() (*NetworkDevice method*), 443, 1145, 1859  
 monitor\_bulk\_status() (*SecurityGroups method*), 554, 1266, 1980  
 monitor\_bulk\_status() (*SecurityGroupsAcls method*), 562, 1274, 1988  
 monitor\_bulk\_status() (*SecurityGroupToVirtualNetwork method*), 546, 1258, 1972  
 monitor\_bulk\_status() (*SxpConnections method*), 525, 1237, 1951  
 monitor\_bulk\_status() (*SxpLocalBindings method*), 533, 1245, 1959

`monitor_bulk_status()` (*SxpVpns method*), 539, 1251, 1965  
`monitor_bulk_status_anc_endpoint()` (*AncEndpoint method*), 48, 740, 1454  
`monitor_bulk_status_anc_policy()` (*AncPolicy method*), 95, 787, 1501  
`monitor_bulk_status_egress_matrix_cell()` (*EgressMatrixCell method*), 225, 921, 1635  
`monitor_bulk_status_endpoint()` (*Endpoint method*), 690, 1401, 2115  
`monitor_bulk_status_guest_user()` (*GuestUser method*), 291, 987, 1701  
`monitor_bulk_status_ip_to_sgt_mapping()` (*IpToSgtMapping method*), 313, 1009, 1723  
`monitor_bulk_status_ip_to_sgt_mapping_group()` (*IpToSgtMappingGroup method*), 322, 1018, 1732  
`monitor_bulk_status_network_device()` (*NetworkDevice method*), 443, 1145, 1859  
`monitor_bulk_status_security_group()` (*SecurityGroups method*), 553, 1265, 1979  
`monitor_bulk_status_security_groups_acl()` (*SecurityGroupsAcls method*), 561, 1273, 1987  
`monitor_bulk_status_security_groups_to_vn_to_vlans()` (*SecurityGroupToVirtualNetwork method*), 545, 1257, 1971  
`monitor_bulk_status_sxp_connections()` (*SxpConnections method*), 524, 1236, 1950  
`monitor_bulk_status_sxp_local_bindings()` (*SxpLocalBindings method*), 532, 1244, 1958  
`monitor_bulk_status_sxp_vpns()` (*SxpVpns method*), 538, 1250, 1964  
`MyDevicePortal` (class in *ciscoisesdk.api.v3\_1\_0.my\_device\_portal*), 356  
`MyDevicePortal` (class in *ciscoisesdk.api.v3\_1\_1.my\_device\_portal*), 1057  
`MyDevicePortal` (class in *ciscoisesdk.api.v3\_1\_patch\_1.my\_device\_portal*), 1771  
`MyDict` (class in *ciscoisesdk.models.mydict*), 2154

## N

`NativeSupplicantProfile` (class in *ciscoisesdk.api.v3\_1\_0.native\_supplicant\_profile*), 369  
`NativeSupplicantProfile` (class in *ciscoisesdk.api.v3\_1\_1.native\_supplicant\_profile*), 1070  
`NativeSupplicantProfile` (class in *ciscoisesdk.api.v3\_1\_patch\_1.native\_supplicant\_profile*), 1784  
`NbarApp` (class in *ciscoisesdk.api.v3\_1\_0.nbar\_app*), 691  
`NbarApp` (class in *ciscoisesdk.api.v3\_1\_1.nbar\_app*), 1402  
`NbarApp` (class in *ciscoisesdk.api.v3\_1\_patch\_1.nbar\_app*), 2116  
`NetworkAccessAuthenticationRules` (class in *ciscoisesdk.api.v3\_1\_0.network\_access\_authentication\_rules*), 374  
`NetworkAccessAuthenticationRules` (class in *ciscoisesdk.api.v3\_1\_1.network\_access\_authentication\_rules*), 1075  
`NetworkAccessAuthenticationRules` (class in *ciscoisesdk.api.v3\_1\_patch\_1.network\_access\_authentication\_rules*), 1789  
`NetworkAccessAuthorizationExceptionRules` (class in *ciscoisesdk.api.v3\_1\_0.network\_access\_authorization\_exception\_rules*), 379  
`NetworkAccessAuthorizationExceptionRules` (class in *ciscoisesdk.api.v3\_1\_1.network\_access\_authorization\_exception\_rules*), 1080  
`NetworkAccessAuthorizationExceptionRules` (class in *ciscoisesdk.api.v3\_1\_patch\_1.network\_access\_authorization\_exception\_rules*), 1794  
`NetworkAccessAuthorizationGlobalExceptionRules` (class in *ciscoisesdk.api.v3\_1\_0.network\_access\_authorization\_global\_exception\_rules*), 383  
`NetworkAccessAuthorizationGlobalExceptionRules` (class in *ciscoisesdk.api.v3\_1\_1.network\_access\_authorization\_global\_exception\_rules*), 1084  
`NetworkAccessAuthorizationGlobalExceptionRules` (class in *ciscoisesdk.api.v3\_1\_patch\_1.network\_access\_authorization\_global\_exception\_rules*), 1798  
`NetworkAccessAuthorizationRules` (class in *ciscoisesdk.api.v3\_1\_0.network\_access\_authorization\_rules*), 387  
`NetworkAccessAuthorizationRules` (class in *ciscoisesdk.api.v3\_1\_1.network\_access\_authorization\_rules*), 1088  
`NetworkAccessAuthorizationRules` (class in *ciscoisesdk.api.v3\_1\_patch\_1.network\_access\_authorization\_rules*), 1802  
`NetworkAccessConditions` (class in *ciscoisesdk.api.v3\_1\_0.network\_access\_conditions*),

|  |  |  |
|--|--|--|
| 392  |  | (class in ciscoisesdk.api.v3_1_1.network_access_network_conditions), |
| NetworkAccessConditions (class in ciscoisesdk.api.v3_1_1.network_access_conditions),                                     | 1114   |  |
| 1093   | NetworkAccessNetworkConditions   |  |
| NetworkAccessConditions (class in ciscoisesdk.api.v3_1_patch_1.network_access_conditions),                               | (class in ciscoisesdk.api.v3_1_patch_1.network_access_network_conditions),                                   |  |
| 1807   | 1828   |  |
| NetworkAccessDictionary (class in ciscoisesdk.api.v3_1_0.network_access_dictionary),                                     | NetworkAccessPolicySet (class in ciscoisesdk.api.v3_1_0.network_access_policy_set),                          |  |
| 402  | 416  |  |
| NetworkAccessDictionary (class in ciscoisesdk.api.v3_1_1.network_access_dictionary),                                     | NetworkAccessPolicySet (class in ciscoisesdk.api.v3_1_1.network_access_policy_set),                          |  |
| 1103   | 1118   |  |
| NetworkAccessDictionary (class in ciscoisesdk.api.v3_1_patch_1.network_access_dictionary),                               | NetworkAccessPolicySet (class in ciscoisesdk.api.v3_1_patch_1.network_access_policy_set),                    |  |
| 1817   | 1832   |  |
| NetworkAccessDictionaryAttribute (class in ciscoisesdk.api.v3_1_0.network_access_dictionary_attribute),                  | NetworkAccessProfiles (class in ciscoisesdk.api.v3_1_0.network_access_profiles),                             |  |
| 406  | 421  |  |
| NetworkAccessDictionaryAttribute (class in ciscoisesdk.api.v3_1_1.network_access_dictionary_attribute),                  | NetworkAccessProfiles (class in ciscoisesdk.api.v3_1_1.network_access_profiles),                             |  |
| 1107   | 1123   |  |
| NetworkAccessDictionaryAttribute (class in ciscoisesdk.api.v3_1_patch_1.network_access_dictionary_attribute),            | NetworkAccessProfiles (class in ciscoisesdk.api.v3_1_patch_1.network_access_profiles),                       |  |
| 1821   | 1837   |  |
| NetworkAccessDictionaryAttributesList (class in ciscoisesdk.api.v3_1_0.network_access_dictionary_attributes_list),       | NetworkAccessSecurityGroups (class in ciscoisesdk.api.v3_1_0.network_access_security_groups),                |  |
| 410  | 422  |  |
| NetworkAccessDictionaryAttributesList (class in ciscoisesdk.api.v3_1_1.network_access_dictionary_attributes_list),       | NetworkAccessSecurityGroups (class in ciscoisesdk.api.v3_1_1.network_access_security_groups),                |  |
| 1111   | 1124   |  |
| NetworkAccessDictionaryAttributesList (class in ciscoisesdk.api.v3_1_patch_1.network_access_dictionary_attributes_list), | NetworkAccessSecurityGroups (class in ciscoisesdk.api.v3_1_patch_1.network_access_security_groups),          |  |
| 1825   | 1838   |  |
| NetworkAccessIdentityStores (class in ciscoisesdk.api.v3_1_0.network_access_identity_stores),                            | NetworkAccessServiceNames (class in ciscoisesdk.api.v3_1_0.network_access_service_names),                    |  |
| 412  | 422  |  |
| NetworkAccessIdentityStores (class in ciscoisesdk.api.v3_1_1.network_access_identity_stores),                            | NetworkAccessServiceNames (class in ciscoisesdk.api.v3_1_1.network_access_service_names),                    |  |
| 1113   | 1124   |  |
| NetworkAccessIdentityStores (class in ciscoisesdk.api.v3_1_patch_1.network_access_identity_stores),                      | NetworkAccessServiceNames (class in ciscoisesdk.api.v3_1_patch_1.network_access_service_names),              |  |
| 1827   | 1838   |  |
| NetworkAccessNetworkConditions (class in ciscoisesdk.api.v3_1_0.network_access_network_conditions),                      | NetworkAccessTimeDateConditions (class in ciscoisesdk.api.v3_1_0.network_access_time_date_conditions),       |  |
| 413  | 423  |  |
| NetworkAccessNetworkConditions   | NetworkAccessTimeDateConditions (class in ciscoisesdk.api.v3_1_patch_1.network_access_time_date_conditions), |  |

1839

NetworkDevice (class in *ciscoisesdk.api.v3\_1\_0.network\_device*), 429

NetworkDevice (class in *ciscoisesdk.api.v3\_1\_1.network\_device*), 1131

NetworkDevice (class in *ciscoisesdk.api.v3\_1\_patch\_1.network\_device*), 1845

NetworkDeviceGroup (class in *ciscoisesdk.api.v3\_1\_0.network\_device\_group*), 444

NetworkDeviceGroup (class in *ciscoisesdk.api.v3\_1\_1.network\_device\_group*), 1146

NetworkDeviceGroup (class in *ciscoisesdk.api.v3\_1\_patch\_1.network\_device\_group*), 1860

NodeDeployment (class in *ciscoisesdk.api.v3\_1\_0.node\_deployment*), 450

NodeDeployment (class in *ciscoisesdk.api.v3\_1\_1.node\_deployment*), 1152

NodeDeployment (class in *ciscoisesdk.api.v3\_1\_patch\_1.node\_deployment*), 1866

NodeDetails (class in *ciscoisesdk.api.v3\_1\_0.node\_details*), 457

NodeDetails (class in *ciscoisesdk.api.v3\_1\_1.node\_details*), 1167

NodeDetails (class in *ciscoisesdk.api.v3\_1\_patch\_1.node\_details*), 1881

NodeGroup (class in *ciscoisesdk.api.v3\_1\_0.node\_group*), 454

NodeGroup (class in *ciscoisesdk.api.v3\_1\_1.node\_group*), 1158

NodeGroup (class in *ciscoisesdk.api.v3\_1\_patch\_1.node\_group*), 1872

NodeServices (class in *ciscoisesdk.api.v3\_1\_1.node\_services*), 1163

NodeServices (class in *ciscoisesdk.api.v3\_1\_patch\_1.node\_services*), 1877

## O

object\_factory() (*IdentityServicesEngineAPI* property), 31

original\_error (*DownloadFailure* attribute), 2156

## P

PanHa (class in *ciscoisesdk.api.v3\_1\_0.pan\_ha*), 462

PanHa (class in *ciscoisesdk.api.v3\_1\_1.pan\_ha*), 1172

PanHa (class in *ciscoisesdk.api.v3\_1\_patch\_1.pan\_ha*), 1886

Patching (class in *ciscoisesdk.api.v3\_1\_1.patching*), 1173

Patching (class in *ciscoisesdk.api.v3\_1\_patch\_1.patching*), 1887

path() (*DownloadResponse* property), 2154

perform\_initialize() (*IdentityServicesEngineAPI* property), 30

Portal (class in *ciscoisesdk.api.v3\_1\_0.portal*), 696

Portal (class in *ciscoisesdk.api.v3\_1\_1.portal*), 1407

Portal (class in *ciscoisesdk.api.v3\_1\_patch\_1.portal*), 2121

PortalGlobalSetting (class in *ciscoisesdk.api.v3\_1\_0.portal\_global\_setting*), 464

PortalGlobalSetting (class in *ciscoisesdk.api.v3\_1\_1.portal\_global\_setting*), 1177

PortalGlobalSetting (class in *ciscoisesdk.api.v3\_1\_patch\_1.portal\_global\_setting*), 1891

PortalTheme (class in *ciscoisesdk.api.v3\_1\_0.portal\_theme*), 468

PortalTheme (class in *ciscoisesdk.api.v3\_1\_1.portal\_theme*), 1181

PortalTheme (class in *ciscoisesdk.api.v3\_1\_patch\_1.portal\_theme*), 1895

Profiler (class in *ciscoisesdk.api.v3\_1\_0.profiler*), 474

Profiler (class in *ciscoisesdk.api.v3\_1\_1.profiler*), 1187

Profiler (class in *ciscoisesdk.api.v3\_1\_patch\_1.profiler*), 1901

ProfilerProfile (class in *ciscoisesdk.api.v3\_1\_0.profiler\_profile*), 475

ProfilerProfile (class in *ciscoisesdk.api.v3\_1\_1.profiler\_profile*), 1188

ProfilerProfile (class in *ciscoisesdk.api.v3\_1\_patch\_1.profiler\_profile*), 1902

promote\_node() (*NodeDeployment* method), 451, 1156, 1870

Provider (class in *ciscoisesdk.api.v3\_1\_0.provider*), 479

Provider (class in *ciscoisesdk.api.v3\_1\_1.provider*), 1192

Provider (class in *ciscoisesdk.api.v3\_1\_patch\_1.provider*), 1906

Proxy (class in *ciscoisesdk.api.v3\_1\_1.proxy*), 1410

Proxy (class in *ciscoisesdk.api.v3\_1\_patch\_1.proxy*), 2124

PsnNodeDetailsWithRadiusService (class in *ciscoisesdk.api.v3\_1\_0.psn\_node\_details\_with\_radius\_service*), 481

PsnNodeDetailsWithRadiusService (class in *ciscois-*



`esdk.api.v3_1_1.psn_node_details_with_radius_service`, 1194

`esdk.api.v3_1_1.psn_node_details_with_radius_service`, 1194

`esdk.api.v3_1_patch_1.psn_node_details_with_radius_service`, 1908

`PsnNodeDetailsWithRadiusService` (class in `ciscoisesdk.api.v3_1_1.psn_node_details_with_radius_service`), 1153, 1867

`PsnNodeDetailsWithRadiusService` (class in `ciscoisesdk.api.v3_1_patch_1.psn_node_details_with_radius_service`), 1906

`PullDeploymentInfo` (class in `ciscoisesdk.api.v3_1_0.pull_deployment_info`), 485

`PullDeploymentInfo` (class in `ciscoisesdk.api.v3_1_1.pull_deployment_info`), 1198

`PullDeploymentInfo` (class in `ciscoisesdk.api.v3_1_patch_1.pull_deployment_info`), 1912

`px_grid_base_url()` (`IdentityServicesEngineAPI` property), 31

`PxGridNode` (class in `ciscoisesdk.api.v3_1_0.px_grid_node`), 699

`PxGridNode` (class in `ciscoisesdk.api.v3_1_1.px_grid_node`), 1412

`PxGridNode` (class in `ciscoisesdk.api.v3_1_patch_1.px_grid_node`), 2126

`PxGridSettings` (class in `ciscoisesdk.api.v3_1_0.px_grid_settings`), 490

`PxGridSettings` (class in `ciscoisesdk.api.v3_1_1.px_grid_settings`), 1203

`PxGridSettings` (class in `ciscoisesdk.api.v3_1_patch_1.px_grid_settings`), 1917

## R

`RadiusFailure` (class in `ciscoisesdk.api.v3_1_0.radius_failure`), 492

`RadiusFailure` (class in `ciscoisesdk.api.v3_1_1.radius_failure`), 1205

`RadiusFailure` (class in `ciscoisesdk.api.v3_1_patch_1.radius_failure`), 1919

`RadiusServerSequence` (class in `ciscoisesdk.api.v3_1_0.radius_server_sequence`), 493

`RadiusServerSequence` (class in `ciscoisesdk.api.v3_1_1.radius_server_sequence`), 1206

`RadiusServerSequence` (class in `ciscoisesdk.api.v3_1_patch_1.radius_server_sequence`), 1920

`RateLimitError`, 2156

`RateLimitWarning`, 2156

`raw` (`DownloadFailure` attribute), 2156

`regenerate_ise_root_ca()` (`Certificates` method), 141, 833, 1547

`register()` (`Endpoint` method), 686, 1397, 2111

`register_endpoint()` (`Endpoint` method), 685, 1396, 2110

`register_node()` (`NodeDeployment` method), 450, 1153, 1867

`register_service()` (`Provider` method), 479, 1192, 1906

`reinitialize()` (`IdentityServicesEngineAPI` method), 30

`reinstate_by_id()` (`GuestUser` method), 282, 978, 1692

`reinstate_by_name()` (`GuestUser` method), 278, 974, 1688

`reinstate_guest_user_by_id()` (`GuestUser` method), 281, 977, 1691

`reinstate_guest_user_by_name()` (`GuestUser` method), 278, 974, 1688

`release_rejected()` (`Endpoint` method), 681, 1392, 2106

`release_rejected_endpoint()` (`Endpoint` method), 680, 1391, 2105

`remove_node()` (`NodeGroup` method), 1162, 1876

`renew_certificates()` (`Certificates` method), 141, 834, 1548

`ReplicationStatus` (class in `ciscoisesdk.api.v3_1_0.replication_status`), 509

`Repository` (class in `ciscoisesdk.api.v3_1_0.repository`), 510

`Repository` (class in `ciscoisesdk.api.v3_1_1.repository`), 1222

`Repository` (class in `ciscoisesdk.api.v3_1_patch_1.repository`), 1936

`request` (`ApiError` attribute), 2155

`request` (`DownloadFailure` attribute), 2156

`reregister_service()` (`Provider` method), 480, 1193, 1907

`reset_guest_user_password_by_id()` (`GuestUser` method), 280, 976, 1690

`reset_hit_counts()` (`DeviceAdministrationAuthorizationGlobalExceptionRules` method), 175, 871, 1585

`reset_hit_counts()` (`DeviceAdministrationPolicySet` method), 201, 897, 1611

`reset_hit_counts()` (`NetworkAccessAuthorizationGlobalExceptionRules` method), 385, 1086, 1800

`reset_hit_counts()` (`NetworkAccessPolicySet` method), 418, 1120, 1834

`reset_hit_counts_by_id()` (`DeviceAdministrationAuthenticationRules` method), 167, 863, 1577

`reset_hit_counts_by_id()` (`DeviceAdministrationAuthorizationExceptionRules` method), 171, 867, 1581

`reset_hit_counts_by_id()` (`DeviceAdministration` method), 171, 867, 1581

[tionAuthorizationRules method](#)), 180, 876, 1590  
[reset\\_hit\\_counts\\_by\\_id\(\)](#) ([NetworkAccessAuthenticationRules method](#)), 376, 1077, 1791  
[reset\\_hit\\_counts\\_by\\_id\(\)](#) ([NetworkAccessAuthorizationExceptionRules method](#)), 381, 1082, 1796  
[reset\\_hit\\_counts\\_by\\_id\(\)](#) ([NetworkAccessAuthorizationRules method](#)), 389, 1090, 1804  
[reset\\_hit\\_counts\\_device\\_admin\\_authentication\\_rules\(\)](#) ([DeviceAdministrationAuthenticationRules method](#)), 166, 862, 1576  
[reset\\_hit\\_counts\\_device\\_admin\\_authorization\\_rules\(\)](#) ([DeviceAdministrationAuthorizationRules method](#)), 179, 875, 1589  
[reset\\_hit\\_counts\\_device\\_admin\\_global\\_exceptions\(\)](#) ([DeviceAdministrationAuthorizationGlobalExceptionRules method](#)), 175, 871, 1585  
[reset\\_hit\\_counts\\_device\\_admin\\_local\\_exceptions\(\)](#) ([DeviceAdministrationAuthorizationExceptionRules method](#)), 170, 866, 1580  
[reset\\_hit\\_counts\\_device\\_admin\\_policy\\_sets\(\)](#) ([DeviceAdministrationPolicySet method](#)), 201, 897, 1611  
[reset\\_hit\\_counts\\_network\\_access\\_authentication\\_rules\(\)](#) ([NetworkAccessAuthenticationRules method](#)), 376, 1077, 1791  
[reset\\_hit\\_counts\\_network\\_access\\_authorization\\_rules\(\)](#) ([NetworkAccessAuthorizationRules method](#)), 389, 1090, 1804  
[reset\\_hit\\_counts\\_network\\_access\\_global\\_exceptions\(\)](#) ([NetworkAccessAuthorizationGlobalExceptionRules method](#)), 384, 1085, 1799  
[reset\\_hit\\_counts\\_network\\_access\\_local\\_exceptions\(\)](#) ([NetworkAccessAuthorizationExceptionRules method](#)), 380, 1081, 1795  
[reset\\_hit\\_counts\\_network\\_access\\_policy\\_sets\(\)](#) ([NetworkAccessPolicySet method](#)), 418, 1120, 1834  
[reset\\_password\\_by\\_id\(\)](#) ([GuestUser method](#)), 281, 977, 1691  
[response](#) ([ApiError attribute](#)), 2155  
[response](#) ([DownloadFailure attribute](#)), 2156  
[response\(\)](#) ([RestResponse property](#)), 2155  
[RestidStore](#) (class in [ciscoisesdk.api.v3\\_1\\_0.restid\\_store](#)), 501  
[RestidStore](#) (class in [ciscoisesdk.api.v3\\_1\\_1.restid\\_store](#)), 1214  
[RestidStore](#) (class in [ciscoisesdk.api.v3\\_1\\_patch\\_1.restid\\_store](#)), 1928  
[restore\(\)](#) ([BackupAndRestore method](#)), 122, 814, 1528  
[restore\\_config\\_backup\(\)](#) ([BackupAndRestore method](#)), 121, 813, 1527  
[RestResponse](#) (class in [ciscoisesdk.restresponse](#)), 2155  
[retry\\_after](#) ([RateLimitError attribute](#)), 2156  
[retry\\_after](#) ([RateLimitWarning attribute](#)), 2156  
[rollback\\_hotpatch\(\)](#) ([Patching method](#)), 1174, 1888  
[rollback\\_patch\(\)](#) ([Patching method](#)), 1176, 1890

## S

[SecurityGroups](#) (class in [ciscoisesdk.api.v3\\_1\\_0.security\\_groups](#)), 546  
[SecurityGroups](#) (class in [ciscoisesdk.api.v3\\_1\\_1.security\\_groups](#)), 1258  
[SecurityGroups](#) (class in [ciscoisesdk.api.v3\\_1\\_patch\\_1.security\\_groups](#)), 1972  
[SecurityGroupsAcls](#) (class in [ciscoisesdk.api.v3\\_1\\_0.security\\_groups\\_acls](#)), 554  
[SecurityGroupsAcls](#) (class in [ciscoisesdk.api.v3\\_1\\_1.security\\_groups\\_acls](#)), 1266  
[SecurityGroupsAcls](#) (class in [ciscoisesdk.api.v3\\_1\\_patch\\_1.security\\_groups\\_acls](#)), 1980  
[SecurityGroupToVirtualNetworkRules](#) (class in [ciscoisesdk.api.v3\\_1\\_0.security\\_group\\_to\\_virtual\\_network](#)), 539  
[SecurityGroupToVirtualNetworkRules](#) (class in [ciscoisesdk.api.v3\\_1\\_1.security\\_group\\_to\\_virtual\\_network](#)), 1251  
[SecurityGroupToVirtualNetworkRules](#) (class in [ciscoisesdk.api.v3\\_1\\_patch\\_1.security\\_group\\_to\\_virtual\\_network](#)), 1965  
[SelfRegisteredPortal](#) (class in [ciscoisesdk.api.v3\\_1\\_0.self\\_registered\\_portal](#)), 562  
[SelfRegisteredPortal](#) (class in [ciscoisesdk.api.v3\\_1\\_1.self\\_registered\\_portal](#)), 1274  
[SelfRegisteredPortal](#) (class in [ciscoisesdk.api.v3\\_1\\_patch\\_1.self\\_registered\\_portal](#)), 1988  
[session\(\)](#) ([IdentityServicesEngineAPI property](#)), 30  
[session\\_disconnect\(\)](#) ([Misc method](#)), 354, 1055, 1769  
[session\\_ers\(\)](#) ([IdentityServicesEngineAPI property](#)), 30  
[session\\_mnt\(\)](#) ([IdentityServicesEngineAPI property](#)), 30

[session\\_px\\_grid\(\)](#) (*IdentityServicesEngineAPI* property), 30  
[session\\_reauthentication\\_by\\_mac\(\)](#) (*Misc* method), 354, 1055, 1769  
[session\\_ui\(\)](#) (*IdentityServicesEngineAPI* property), 30  
[SessionDirectory](#) (class in *ciscoisesdk.api.v3\_1\_0.session\_directory*), 588  
[SessionDirectory](#) (class in *ciscoisesdk.api.v3\_1\_1.session\_directory*), 1300  
[SessionDirectory](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.session\_directory*), 2014  
[set\\_all\\_cells\\_status\(\)](#) (*EgressMatrixCell* method), 218, 914, 1628  
[set\\_profiler\\_probe\\_config\(\)](#) (*NodeServices* method), 1165, 1879  
[set\\_status\(\)](#) (*EgressMatrixCell* method), 218, 914, 1628  
[set\\_sxp\\_interface\(\)](#) (*NodeServices* method), 1164, 1878  
[SgVnMapping](#) (class in *ciscoisesdk.api.v3\_1\_0.sg\_vn\_mapping*), 705  
[SgVnMapping](#) (class in *ciscoisesdk.api.v3\_1\_1.sg\_vn\_mapping*), 1417  
[SgVnMapping](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.sg\_vn\_mapping*), 2131  
[single\\_request\\_timeout\(\)](#) (*Authentication* property), 32  
[single\\_request\\_timeout\(\)](#) (*IdentityServicesEngineAPI* property), 31  
[SmsProvider](#) (class in *ciscoisesdk.api.v3\_1\_0.sms\_provider*), 514  
[SmsProvider](#) (class in *ciscoisesdk.api.v3\_1\_1.sms\_provider*), 1227  
[SmsProvider](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.sms\_provider*), 1941  
[SponsoredGuestPortal](#) (class in *ciscoisesdk.api.v3\_1\_0.sponsored\_guest\_portal*), 616  
[SponsoredGuestPortal](#) (class in *ciscoisesdk.api.v3\_1\_1.sponsored\_guest\_portal*), 1328  
[SponsoredGuestPortal](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.sponsored\_guest\_portal*), 2042  
[SponsorGroup](#) (class in *ciscoisesdk.api.v3\_1\_0.sponsor\_group*), 591  
[SponsorGroup](#) (class in *ciscoisesdk.api.v3\_1\_1.sponsor\_group*), 1303  
[SponsorGroup](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.sponsor\_group*), 2017  
[SponsorGroupMember](#) (class in *ciscoisesdk.api.v3\_1\_0.sponsor\_group\_member*), 600  
[SponsorGroupMember](#) (class in *ciscoisesdk.api.v3\_1\_1.sponsor\_group\_member*), 1312  
[SponsorGroupMember](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.sponsor\_group\_member*), 2026  
[SponsorPortal](#) (class in *ciscoisesdk.api.v3\_1\_0.sponsor\_portal*), 603  
[SponsorPortal](#) (class in *ciscoisesdk.api.v3\_1\_1.sponsor\_portal*), 1315  
[SponsorPortal](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.sponsor\_portal*), 2029  
[status](#) (*ApiError* attribute), 2155  
[status](#) (*DownloadFailure* attribute), 2156  
[status\\_code](#) (*ApiError* attribute), 2155  
[status\\_code](#) (*DownloadFailure* attribute), 2156  
[status\\_code\(\)](#) (*RestResponse* property), 2155  
[SupportBundleDownload](#) (class in *ciscoisesdk.api.v3\_1\_0.support\_bundle\_download*), 633  
[SupportBundleDownload](#) (class in *ciscoisesdk.api.v3\_1\_1.support\_bundle\_download*), 1345  
[SupportBundleDownload](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.support\_bundle\_download*), 2059  
[SupportBundleStatus](#) (class in *ciscoisesdk.api.v3\_1\_0.support\_bundle\_status*), 635  
[SupportBundleStatus](#) (class in *ciscoisesdk.api.v3\_1\_1.support\_bundle\_status*), 1347  
[SupportBundleStatus](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.support\_bundle\_status*), 2061  
[SupportBundleTriggerConfiguration](#) (class in *ciscoisesdk.api.v3\_1\_0.support\_bundle\_trigger\_configuration*), 638  
[SupportBundleTriggerConfiguration](#) (class in *ciscoisesdk.api.v3\_1\_1.support\_bundle\_trigger\_configuration*), 1350  
[SupportBundleTriggerConfiguration](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.support\_bundle\_trigger\_configuration*), 2064  
[suspend\\_by\\_id\(\)](#) (*GuestUser* method), 289, 985, 1699  
[suspend\\_by\\_name\(\)](#) (*GuestUser* method), 278, 974,

1688  
 suspend\_guest\_user\_by\_id() (*GuestUser method*), 289, 985, 1699  
 suspend\_guest\_user\_by\_name() (*GuestUser method*), 277, 973, 1687  
 SxpConnections (class in *ciscoisesdk.api.v3\_1\_0.sxp\_connections*), 517  
 SxpConnections (class in *ciscoisesdk.api.v3\_1\_1.sxp\_connections*), 1230  
 SxpConnections (class in *ciscoisesdk.api.v3\_1\_patch\_1.sxp\_connections*), 1944  
 SxpLocalBindings (class in *ciscoisesdk.api.v3\_1\_0.sxp\_local\_bindings*), 525  
 SxpLocalBindings (class in *ciscoisesdk.api.v3\_1\_1.sxp\_local\_bindings*), 1237  
 SxpLocalBindings (class in *ciscoisesdk.api.v3\_1\_patch\_1.sxp\_local\_bindings*), 1951  
 SxpVpns (class in *ciscoisesdk.api.v3\_1\_0.sxp\_vpns*), 533  
 SxpVpns (class in *ciscoisesdk.api.v3\_1\_1.sxp\_vpns*), 1245  
 SxpVpns (class in *ciscoisesdk.api.v3\_1\_patch\_1.sxp\_vpns*), 1959  
 sync\_node() (*NodeDeployment method*), 1157, 1871  
 sync\_node() (*SyncIseNode method*), 641  
 SyncIseNode (class in *ciscoisesdk.api.v3\_1\_0.sync\_ise\_node*), 641  
 SystemCertificate (class in *ciscoisesdk.api.v3\_1\_0.system\_certificate*), 643  
 SystemCertificate (class in *ciscoisesdk.api.v3\_1\_1.system\_certificate*), 1354  
 SystemCertificate (class in *ciscoisesdk.api.v3\_1\_patch\_1.system\_certificate*), 2068  
 SystemHealth (class in *ciscoisesdk.api.v3\_1\_0.system\_health*), 642  
 SystemHealth (class in *ciscoisesdk.api.v3\_1\_1.system\_health*), 1353  
 SystemHealth (class in *ciscoisesdk.api.v3\_1\_patch\_1.system\_health*), 2067

## T

TacacsCommandSets (class in *ciscoisesdk.api.v3\_1\_0.tacacs\_command\_sets*), 646  
 TacacsCommandSets (class in *ciscoisesdk.api.v3\_1\_1.tacacs\_command\_sets*), 1357  
 TacacsCommandSets (class in *ciscoisesdk.api.v3\_1\_patch\_1.tacacs\_command\_sets*), 2071

TacacsExternalServers (class in *ciscoisesdk.api.v3\_1\_0.tacacs\_external\_servers*), 652  
 TacacsExternalServers (class in *ciscoisesdk.api.v3\_1\_1.tacacs\_external\_servers*), 1363  
 TacacsExternalServers (class in *ciscoisesdk.api.v3\_1\_patch\_1.tacacs\_external\_servers*), 2077  
 TacacsProfile (class in *ciscoisesdk.api.v3\_1\_0.tacacs\_profile*), 658  
 TacacsProfile (class in *ciscoisesdk.api.v3\_1\_1.tacacs\_profile*), 1369  
 TacacsProfile (class in *ciscoisesdk.api.v3\_1\_patch\_1.tacacs\_profile*), 2083  
 TacacsServerSequence (class in *ciscoisesdk.api.v3\_1\_0.tacacs\_server\_sequence*), 664  
 TacacsServerSequence (class in *ciscoisesdk.api.v3\_1\_1.tacacs\_server\_sequence*), 1375  
 TacacsServerSequence (class in *ciscoisesdk.api.v3\_1\_patch\_1.tacacs\_server\_sequence*), 2089  
 Tasks (class in *ciscoisesdk.api.v3\_1\_0.tasks*), 711  
 Tasks (class in *ciscoisesdk.api.v3\_1\_1.tasks*), 1424  
 Tasks (class in *ciscoisesdk.api.v3\_1\_patch\_1.tasks*), 2138  
 Telemetry (class in *ciscoisesdk.api.v3\_1\_1.telemetry*), 1425  
 Telemetry (class in *ciscoisesdk.api.v3\_1\_patch\_1.telemetry*), 2139  
 TelemetryInformation (class in *ciscoisesdk.api.v3\_1\_0.telemetry\_information*), 671  
 TelemetryInformation (class in *ciscoisesdk.api.v3\_1\_1.telemetry\_information*), 1382  
 TelemetryInformation (class in *ciscoisesdk.api.v3\_1\_patch\_1.telemetry\_information*), 2096  
 test\_aci\_connectivity() (*AciSettings method*), 39, 731, 1445  
 text() (*RestResponse property*), 2155  
 to\_json() (*MyDict method*), 2154  
 TrustSecConfiguration (class in *ciscoisesdk.api.v3\_1\_0.trust\_sec\_configuration*), 674  
 TrustSecConfiguration (class in *ciscoisesdk.api.v3\_1\_1.trust\_sec\_configuration*), 1385  
 TrustSecConfiguration (class in *ciscoisesdk.api.v3\_1\_patch\_1.trust\_sec\_configuration*), 2099



TrustSecSxp (class in ciscoisesdk.api.v3\_1\_0.trust\_sec\_sxp), 677

TrustSecSxp (class in ciscoisesdk.api.v3\_1\_1.trust\_sec\_sxp), 1388

TrustSecSxp (class in ciscoisesdk.api.v3\_1\_patch\_1.trust\_sec\_sxp), 2102

## U

ui\_base\_url() (*IdentityServicesEngineAPI* property), 31

unregister\_service() (*Provider* method), 479, 1192, 1906

update() (*BackupAndRestore* method), 124, 816, 1530

update\_aci\_settings\_by\_id() (*AciSettings* method), 39, 731, 1445

update\_allowed\_protocol\_by\_id() (*Allowed-Protocols* method), 80, 772, 1486

update\_anc\_policy\_by\_id() (*AncPolicy* method), 89, 781, 1495

update\_authorization\_profile\_by\_id() (*AuthorizationProfile* method), 100, 792, 1506

update\_by\_id() (*AciSettings* method), 41, 733, 1447

update\_by\_id() (*AllowedProtocols* method), 82, 774, 1488

update\_by\_id() (*AncPolicy* method), 90, 782, 1496

update\_by\_id() (*AuthorizationProfile* method), 102, 794, 1508

update\_by\_id() (*ByodPortal* method), 115, 807, 1521

update\_by\_id() (*CertificateProfile* method), 129, 821, 1535

update\_by\_id() (*DeviceAdministrationAuthenticationRules* method), 168, 864, 1578

update\_by\_id() (*DeviceAdministrationAuthorizationExceptionRules* method), 172, 868, 1582

update\_by\_id() (*DeviceAdministrationAuthorizationGlobalExceptionRules* method), 177, 873, 1587

update\_by\_id() (*DeviceAdministrationAuthorizationRules* method), 181, 877, 1591

update\_by\_id() (*DeviceAdministrationConditions* method), 192, 888, 1602

update\_by\_id() (*DeviceAdministrationNetworkConditions* method), 198, 894, 1608

update\_by\_id() (*DeviceAdministrationPolicySet* method), 203, 899, 1613

update\_by\_id() (*DeviceAdministrationTimeDateConditions* method), 210, 906, 1620

update\_by\_id() (*DownloadableAcl* method), 213, 909, 1623

update\_by\_id() (*EgressMatrixCell* method), 220, 916, 1630

update\_by\_id() (*Endpoint* method), 684, 1395, 2109

update\_by\_id() (*EndpointIdentityGroup* method), 231, 927, 1641

update\_by\_id() (*ExternalRadiusServer* method), 239, 935, 1649

update\_by\_id() (*FilterPolicy* method), 245, 941, 1655

update\_by\_id() (*GuestSmtptNotificationConfiguration* method), 255, 951, 1665

update\_by\_id() (*GuestSsid* method), 261, 957, 1671

update\_by\_id() (*GuestType* method), 269, 965, 1679

update\_by\_id() (*GuestUser* method), 285, 981, 1695

update\_by\_id() (*HotspotPortal* method), 300, 996, 1710

update\_by\_id() (*IdentityGroups* method), 325, 1021, 1735

update\_by\_id() (*IdentitySequence* method), 331, 1027, 1741

update\_by\_id() (*InternalUser* method), 340, 1036, 1750

update\_by\_id() (*IpToSgtMapping* method), 308, 1004, 1718

update\_by\_id() (*IpToSgtMappingGroup* method), 317, 1013, 1727

update\_by\_id() (*MyDevicePortal* method), 365, 1066, 1780

update\_by\_id() (*NativeSupplicantProfile* method), 372, 1073, 1787

update\_by\_id() (*NbarApp* method), 695, 1406, 2120

update\_by\_id() (*NetworkAccessAuthenticationRules* method), 378, 1079, 1793

update\_by\_id() (*NetworkAccessAuthorizationExceptionRules* method), 382, 1083, 1797

update\_by\_id() (*NetworkAccessAuthorizationGlobalExceptionRules* method), 386, 1087, 1801

update\_by\_id() (*NetworkAccessAuthorizationRules* method), 391, 1092, 1806

update\_by\_id() (*NetworkAccessConditions* method), 401, 1102, 1816

update\_by\_id() (*NetworkAccessNetworkConditions* method), 415, 1117, 1831

update\_by\_id() (*NetworkAccessPolicySet* method), 420, 1122, 1836

update\_by\_id() (*NetworkAccessTimeDateConditions* method), 428, 1130, 1844

update\_by\_id() (*NetworkDevice* method), 438, 1140, 1854

update\_by\_id() (*NetworkDeviceGroup* method), 446, 1148, 1862

update\_by\_id() (*PortalGlobalSetting* method), 465, 1178, 1892

update\_by\_id() (*PortalTheme* method), 470, 1183, 1897

update\_by\_id() (*RadiusServerSequence* method),

496, 1209, 1923  
update\_by\_id() (*RestidStore* method), 505, 1218, 1932  
update\_by\_id() (*SecurityGroups* method), 548, 1260, 1974  
update\_by\_id() (*SecurityGroupsAcls* method), 556, 1268, 1982  
update\_by\_id() (*SecurityGroupToVirtualNetwork* method), 541, 1253, 1967  
update\_by\_id() (*SelfRegisteredPortal* method), 583, 1295, 2009  
update\_by\_id() (*SgVnMapping* method), 711, 1423, 2137  
update\_by\_id() (*SponsoredGuestPortal* method), 629, 1341, 2055  
update\_by\_id() (*SponsorGroup* method), 595, 1307, 2021  
update\_by\_id() (*SponsorPortal* method), 612, 1324, 2038  
update\_by\_id() (*SxpConnections* method), 519, 1232, 1946  
update\_by\_id() (*SxpLocalBindings* method), 527, 1239, 1953  
update\_by\_id() (*TacacsCommandSets* method), 649, 1360, 2074  
update\_by\_id() (*TacacsExternalServers* method), 655, 1366, 2080  
update\_by\_id() (*TacacsProfile* method), 661, 1372, 2086  
update\_by\_id() (*TacacsServerSequence* method), 667, 1378, 2092  
update\_by\_id() (*VirtualNetwork* method), 718, 1432, 2146  
update\_by\_name() (*DeviceAdministrationConditions* method), 189, 885, 1599  
update\_by\_name() (*GuestUser* method), 280, 976, 1690  
update\_by\_name() (*InternalUser* method), 337, 1033, 1747  
update\_by\_name() (*NetworkAccessConditions* method), 398, 1099, 1813  
update\_by\_name() (*NetworkAccessDictionary* method), 405, 1106, 1820  
update\_by\_name() (*NetworkAccessDictionaryAttribute* method), 409, 1110, 1824  
update\_by\_name() (*NetworkDevice* method), 436, 1138, 1852  
update\_by\_name() (*Repository* method), 513, 1225, 1939  
update\_by\_name() (*RestidStore* method), 503, 1216, 1930  
update\_byod\_portal\_by\_id() (*ByodPortal* method), 114, 806, 1520  
update\_certificate\_profile\_by\_id() (*CertificateProfile* method), 127, 819, 1533  
update\_device\_admin\_authentication\_rule\_by\_id() (*DeviceAdministrationAuthenticationRules* method), 167, 863, 1577  
update\_device\_admin\_authorization\_rule\_by\_id() (*DeviceAdministrationAuthorizationRules* method), 180, 876, 1590  
update\_device\_admin\_condition\_by\_id() (*DeviceAdministrationConditions* method), 191, 887, 1601  
update\_device\_admin\_condition\_by\_name() (*DeviceAdministrationConditions* method), 187, 883, 1597  
update\_device\_admin\_local\_exception\_rule\_by\_id() (*DeviceAdministrationAuthorizationExceptionRules* method), 172, 868, 1582  
update\_device\_admin\_network\_condition\_by\_id() (*DeviceAdministrationNetworkConditions* method), 198, 894, 1608  
update\_device\_admin\_policy\_set\_by\_id() (*DeviceAdministrationPolicySet* method), 202, 898, 1612  
update\_device\_admin\_policy\_set\_global\_exception\_by\_id() (*DeviceAdministrationAuthorizationGlobalExceptionRules* method), 176, 872, 1586  
update\_device\_admin\_time\_condition\_by\_id() (*DeviceAdministrationTimeDateConditions* method), 208, 904, 1618  
update\_downloadable\_acl\_by\_id() (*DownloadableAcl* method), 212, 908, 1622  
update\_egress\_matrix\_cell\_by\_id() (*EgressMatrixCell* method), 219, 915, 1629  
update\_email() (*GuestType* method), 267, 963, 1677  
update\_email() (*GuestUser* method), 282, 978, 1692  
update\_endpoint\_by\_id() (*Endpoint* method), 683, 1394, 2108  
update\_endpoint\_group\_by\_id() (*EndpointIdentityGroup* method), 230, 926, 1640  
update\_external\_radius\_server\_by\_id() (*ExternalRadiusServer* method), 238, 934, 1648  
update\_filter\_policy\_by\_id() (*FilterPolicy* method), 244, 940, 1654  
update\_guest\_smtp\_notification\_settings\_by\_id() (*GuestSmtptNotificationConfiguration* method), 254, 950, 1664  
update\_guest\_ssid\_by\_id() (*GuestSsid* method), 260, 956, 1670  
update\_guest\_type\_by\_id() (*GuestType* method), 268, 964, 1678  
update\_guest\_type\_email() (*GuestType* method), 267, 963, 1677  
update\_guest\_type\_sms() (*GuestType* method),

267, 963, 1677

`update_guest_user_by_id()` (*GuestUser method*), 284, 980, 1694

`update_guest_user_by_name()` (*GuestUser method*), 279, 975, 1689

`update_guest_user_email()` (*GuestUser method*), 282, 978, 1692

`update_guest_user_sms()` (*GuestUser method*), 282, 978, 1692

`update_hotspot_portal_by_id()` (*HotspotPortal method*), 299, 995, 1709

`update_identity_group_by_id()` (*IdentityGroups method*), 324, 1020, 1734

`update_identity_sequence_by_id()` (*IdentitySequence method*), 330, 1026, 1740

`update_internal_user_by_id()` (*InternalUser method*), 338, 1034, 1748

`update_internal_user_by_name()` (*InternalUser method*), 336, 1032, 1746

`update_ip_to_sgt_mapping_by_id()` (*IpToSgtMapping method*), 307, 1003, 1717

`update_ip_to_sgt_mapping_group_by_id()` (*IpToSgtMappingGroup method*), 316, 1012, 1726

`update_my_device_portal_by_id()` (*MyDevicePortal method*), 364, 1065, 1779

`update_native_suppllicant_profile_by_id()` (*NativeSuppllicantProfile method*), 371, 1072, 1786

`update_nbar_app_by_id()` (*NbarApp method*), 694, 1405, 2119

`update_network_access_authentication_rule_by_id()` (*NetworkAccessAuthenticationRules method*), 377, 1078, 1792

`update_network_access_authentication_rule_by_name()` (*NetworkAccessAuthenticationRules method*), 390, 1091, 1805

`update_network_access_authorization_rule_by_id()` (*NetworkAccessAuthorizationRules method*), 390, 1091, 1805

`update_network_access_authorization_rule_by_name()` (*NetworkAccessAuthorizationRules method*), 390, 1091, 1805

`update_network_access_condition_by_id()` (*NetworkAccessConditions method*), 399, 1100, 1814

`update_network_access_condition_by_name()` (*NetworkAccessConditions method*), 396, 1097, 1811

`update_network_access_dictionary_attribute_by_id()` (*NetworkAccessDictionaryAttribute method*), 408, 1109, 1823

`update_network_access_dictionary_by_name()` (*NetworkAccessDictionary method*), 404, 1105, 1819

`update_network_access_local_exception_rule_by_id()` (*NetworkAccessAuthorizationExceptionRules method*), 381, 1082, 1796

`update_network_access_network_condition_by_id()` (*NetworkAccessNetworkConditions method*), 415, 1116, 1830

`update_network_access_policy_set_by_id()` (*NetworkAccessPolicySet method*), 419, 1121, 1835

`update_network_access_policy_set_global_exception_rules()` (*NetworkAccessAuthorizationGlobalExceptionRules method*), 386, 1087, 1801

`update_network_access_time_condition_by_id()` (*NetworkAccessTimeDateConditions method*), 426, 1128, 1842

`update_network_device_by_id()` (*NetworkDevice method*), 437, 1139, 1853

`update_network_device_by_name()` (*NetworkDevice method*), 435, 1137, 1851

`update_network_device_group_by_id()` (*NetworkDeviceGroup method*), 445, 1147, 1861

`update_node()` (*NodeDeployment method*), 452, 1154, 1868

`update_node_group()` (*NodeGroup method*), 456, 1160, 1874

`update_pan_ha()` (*PanHa method*), 1172, 1886

`update_portal_global_setting_by_id()` (*PortalGlobalSetting method*), 465, 1178, 1892

`update_portal_theme_by_id()` (*PortalTheme method*), 469, 1182, 1896

`update_proxy_connection()` (*Proxy method*), 1411, 2125

`update_radius_server_sequence_by_id()` (*RadiusServerSequence method*), 495, 1208, 1922

`update_repository()` (*Repository method*), 512, 1224, 1938

`update_rest_id_store_by_id()` (*RestidStore method*), 505, 1218, 1932

`update_rest_id_store_by_name()` (*RestidStore method*), 503, 1216, 1930

`update_scheduled_config_backup()` (*BackupAndRestore method*), 122, 814, 1528

`update_security_group_by_id()` (*SecurityGroups method*), 547, 1259, 1973

`update_security_groups_acl_by_id()` (*SecurityGroupsAcls method*), 555, 1267, 1981

`update_security_groups_to_vn_to_vlan_by_id()` (*SecurityGroupToVirtualNetwork method*), 540, 1252, 1966

`update_self_registered_portal_by_id()` (*SelfRegisteredPortal method*), 582, 1294, 2008

`update_sg_vn_mapping_by_id()` (*SgVnMapping method*), 710, 1422, 2136

`update_sms()` (*GuestType method*), 268, 964, 1678

`update_sms()` (*GuestUser method*), 283, 979, 1693

`update_sponsor_group_by_id()` (*SponsorGroup method*), 594, 1306, 2020

[update\\_sponsor\\_portal\\_by\\_id\(\)](#) (*SponsorPortal method*), [611](#), [1323](#), [2037](#)  
[update\\_sponsored\\_guest\\_portal\\_by\\_id\(\)](#) (*SponsoredGuestPortal method*), [628](#), [1340](#), [2054](#)  
[update\\_sxp\\_connections\\_by\\_id\(\)](#) (*SxpConnections method*), [519](#), [1231](#), [1945](#)  
[update\\_sxp\\_local\\_bindings\\_by\\_id\(\)](#) (*SxpLocalBindings method*), [526](#), [1238](#), [1952](#)  
[update\\_system\\_certificate\(\)](#) (*Certificates method*), [149](#), [845](#), [1559](#)  
[update\\_tacacs\\_command\\_sets\\_by\\_id\(\)](#) (*TacacsCommandSets method*), [648](#), [1359](#), [2073](#)  
[update\\_tacacs\\_external\\_servers\\_by\\_id\(\)](#) (*TacacsExternalServers method*), [654](#), [1365](#), [2079](#)  
[update\\_tacacs\\_profile\\_by\\_id\(\)](#) (*TacacsProfile method*), [660](#), [1371](#), [2085](#)  
[update\\_tacacs\\_server\\_sequence\\_by\\_id\(\)](#) (*TacacsServerSequence method*), [666](#), [1377](#), [2091](#)  
[update\\_tier\\_state\\_info\(\)](#) (*Licensing method*), [1044](#), [1758](#)  
[update\\_transport\\_gateway\(\)](#) (*Telemetry method*), [1426](#), [2140](#)  
[update\\_trusted\\_certificate\(\)](#) (*Certificates method*), [156](#), [852](#), [1566](#)  
[update\\_virtual\\_network\\_by\\_id\(\)](#) (*VirtualNetwork method*), [718](#), [1431](#), [2145](#)  
[update\\_vn\\_vlan\\_mapping\\_by\\_id\(\)](#) (*VnVlanMapping method*), [724](#), [1438](#), [2152](#)  
[username\(\)](#) (*IdentityServicesEngineAPI property*), [30](#)  
[uses\\_api\\_gateway\(\)](#) (*IdentityServicesEngineAPI property*), [31](#)  
[uses\\_csrf\\_token\(\)](#) (*IdentityServicesEngineAPI property*), [31](#)

## V

[validator\(\)](#) (*IdentityServicesEngineAPI property*), [31](#)  
[verify\(\)](#) (*Authentication property*), [32](#)  
[verify\(\)](#) (*IdentityServicesEngineAPI property*), [31](#)  
[version\(\)](#) (*IdentityServicesEngineAPI property*), [31](#)  
[VersionAndPatch](#) (class in *ciscoisesdk.api.v3\_1\_0.version\_and\_patch*), [678](#)  
[VersionAndPatch](#) (class in *ciscoisesdk.api.v3\_1\_1.version\_and\_patch*), [1389](#)  
[VersionAndPatch](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.version\_and\_patch*), [2103](#)  
[VersionError](#), [2155](#)  
[VersionInfo](#) (class in *ciscoisesdk.api.v3\_1\_0.version\_info*), [678](#)

[VersionInfo](#) (class in *ciscoisesdk.api.v3\_1\_1.version\_info*), [1389](#)  
[VersionInfo](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.version\_info*), [2103](#)  
[VirtualNetwork](#) (class in *ciscoisesdk.api.v3\_1\_0.virtual\_network*), [713](#)  
[VirtualNetwork](#) (class in *ciscoisesdk.api.v3\_1\_1.virtual\_network*), [1426](#)  
[VirtualNetwork](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.virtual\_network*), [2140](#)  
[VnVlanMapping](#) (class in *ciscoisesdk.api.v3\_1\_0.vn\_vlan\_mapping*), [719](#)  
[VnVlanMapping](#) (class in *ciscoisesdk.api.v3\_1\_1.vn\_vlan\_mapping*), [1433](#)  
[VnVlanMapping](#) (class in *ciscoisesdk.api.v3\_1\_patch\_1.vn\_vlan\_mapping*), [2147](#)

## W

[wait\\_on\\_rate\\_limit\(\)](#) (*IdentityServicesEngineAPI property*), [31](#)