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# **ciscoisesdk Documentation**

***Release 2.0.1***

**Mar 25, 2022**



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

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Welcome to the docs! `ciscoisesdk` is a *community developed* Pythonic wrapping of the Identity Services Engine APIs (for API versions: 3.1.0 and 3.1.1). 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!\*](#)



## 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
```

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## 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='C1scol2345',
                                     uses_api_gateway=True,
                                     base_url='https://dcloud-dna-ise-rtp.cisco.com',
                                     version='3.1.1',
                                     verify=True,
                                     debug=False,
                                     uses_csrf_token=False)
# Or even just api_ = api.IdentityServicesEngineAPI(username='admin', password=
↪ 'C1scol2345') 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:
```

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```

        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 and 3.1.1. 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))

```

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```
# 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

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## 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 ‘3.1.1’.
- `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 and 3.1.1.
```

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 3.1.1
>>> api = IdentityServicesEngineAPI(encoded_auth='YWRtaW46QzFzY28xMjMONQo=',
...                                base_url="https://dcloud-dna-ise-rtp.cisco.com",
...                                version='3.1.1',
...                                uses_api_gateway=True,
...                                uses_csrf_token=True)
>>> # Create a IdentityServicesEngineAPI connection object;
>>> # Using username, and password, with ISE API version 3.1.1
>>> api = IdentityServicesEngineAPI(username='admin', password='C1sco12345',
...                                uses_api_gateway=True,
...                                base_url="https://dcloud-dna-ise-rtp.cisco.com",
...                                version='3.1.1',
...                                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='3.1.1',
...                                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='3.1.1')

```

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 = 'ZG5hY2VudGVydXNlcjpdXNjbzEyMyEK'
>>> london_auth = ('london', 'rcx0cf43!')
>>> kingston_api = IdentityServicesEngineAPI(encoded_auth=kingston_auth, base_url=
↪ "https://dcloud-dna-ise-rtp.cisco.com", version='3.1.1')
>>> london_api = IdentityServicesEngineAPI(*london_auth, base_url="https://128.107.71.
↪ 199:443",
...                                       version='3.1.1', 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.
↪ 1.1
>>> # 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='3.1.1',
...                               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='3.1.1')
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='dXNlcm5hbWU6cGFzc3dvcmQK',
... base_url="https://128.107.71.199:443", version='3.1.1', uses_api_gateway=True)
requests.exceptions.SLError: HTTPSConnectionPool(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='dXNlcm5hbWU6cGFzc3dvcmQK',
... 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 = '3.1.1'**

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](#)

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',
```

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```

'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"
    }
  }
}

```

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```
}
>>>
```

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"
  },
  "serviceName": "Default Network Access",

```

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```

    "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'):
...             # Do something with the configList attribute
...             print(d.id, d.description)

```

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```

>>> # 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)

ch_ = logging.StreamHandler()

```

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```
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 3.1.1.,
# 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='3.1.1',
    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
    under the custom_caller wrapper, and with help documentation
    in two different ways.
```

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```

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:
        _id(str): Hostport portal id.

```

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```

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.

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## 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_administration_command_set()</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_portal_by_name()</i>
	<i>portal_global_setting</i>	<i>get_portal_global_settings()</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>registration()</i>
	<i>psn_node_details_with_radius_service</i>	<i>get_session_service_details()</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>set_sms_provider()</i>
	<i>sponsor_group</i>	<i>create_sponsor_group()</i>
	<i>sponsor_group_member</i>	<i>get_sponsor_group_members()</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_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()</i>
	<i>tasks</i>	<i>get_task_status()</i> <i>get_task()</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_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>clear_threats_and_vulnerabilities</i>	<i>delete_certificate()</i>
	<i>consumer</i>	<i>clear_threats_and_vulnerabilities()</i>
	<i>custom_caller</i>	<i>access_secret()</i>
	<i>device_administration_authentication_rules</i>	<i>add_api()</i>
	<i>device_administration_authorization_exception_rules</i>	<i>call_api()</i>
	<i>device_administration_authorization_global_exception_rules</i>	<i>create_device_administration_authentication_rules()</i>
	<i>device_administration_authorization_rules</i>	<i>create_device_administration_authorization_exception_rules()</i>
	<i>device_administration_command_set</i>	<i>create_device_administration_authorization_global_exception_rules()</i>
	<i>device_administration_conditions</i>	<i>create_device_administration_authorization_rules()</i>
	<i>device_administration_dictionary_attributes_list</i>	<i>get_device_administration_command_set()</i>
	<i>device_administration_identity_stores</i>	<i>create_device_administration_conditions()</i>
	<i>device_administration_network_conditions</i>	<i>get_device_administration_dictionary_attributes_list()</i>
	<i>device_administration_policy_set</i>	<i>create_device_administration_identity_stores()</i>
	<i>device_administration_profiles</i>	<i>get_device_administration_network_conditions()</i>
	<i>device_administration_service_names</i>	<i>create_device_administration_policy_set()</i>
	<i>device_administration_time_date_conditions</i>	<i>create_device_administration_profiles()</i>
	<i>downloadable_acl</i>	<i>get_device_administration_service_names()</i>
	<i>egress_matrix_cell</i>	<i>create_device_administration_time_date_conditions()</i>
	<i>endpoint</i>	<i>create_downloadable_acl()</i>
	<i>endpoint_certificate</i>	<i>bulk_request_for_egress_matrix_cell()</i>
	<i>endpoint_identity_group</i>	<i>bulk_request_for_endpoint()</i>
	<i>external_radius_server</i>	<i>create_endpoint_certificate()</i>
	<i>filter_policy</i>	<i>create_endpoint_identity_group()</i>
	<i>guest_location</i>	<i>create_external_radius_server()</i>
	<i>guest_smtp_notification_configuration</i>	<i>create_filter_policy()</i>
	<i>guest_ssid</i>	<i>get_guest_location()</i>
	<i>guest_type</i>	<i>create_guest_smtp_notification_configuration()</i>
	<i>guest_user</i>	<i>create_guest_ssid()</i>
	<i>hotspot_portal</i>	<i>create_guest_type()</i>
	<i>identity_groups</i>	<i>approve_guest_user()</i>
	<i>identity_sequence</i>	<i>create_hotspot_portal()</i>
	<i>internal_user</i>	<i>create_identity_group()</i>
	<i>ip_to_sgt_mapping</i>	<i>create_identity_sequence()</i>
	<i>ip_to_sgt_mapping_group</i>	<i>create_internal_user()</i>
		<i>bulk_request_for_ip_to_sgt_mapping()</i>
		<i>bulk_request_for_ip_to_sgt_mapping_group()</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_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()</i> <i>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()</i> <i>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>
	<i>trust_sec_sxp</i>	<i>get_bindings()</i>
	<i>version_and_patch</i>	<i>get_ise_version_and</i>
	<i>version_info</i>	<i>get_version_info()</i>
	<i>virtual_network</i>	<i>bulk_create_virtual</i>
	<i>vn_vlan_mapping</i>	<i>bulk_create_vn_vlan</i>

## 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`.

TITY\_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'].

**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**

Revision #	Resource Version	Cisco ISE Version	Description
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,
             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-5bdc2d9fd69
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-vi-sion #	Re-source Ver-sion	Cisco ISE Version	Description	Revision Modifica-tion	Revision Modification
				Attribute	Description
0	1.0	2.2	Initial Cisco ISE Version		
1	1.1	2.4	Support new attributes	advanced-Settings	Added ERSActiveDirectoryAdvancedSettings Attribute 'advancedSettings'
				adAt-tributes	Added ERSActiveDirectoryAttributes Attribute 'adAttributes'
				enable-Domain-WhiteList	Added Boolean Attribute 'enableDomainWhiteList'
2	1.2	3.1	Support new attributes under ActiveDirectory AdvancedSettings	enable-FailedAuth-Protection	Added Boolean Attribute 'enableFailedAuthProtection'
				failedAu-thThresh-old	Added Integer Attribute 'failedAuthThreshold'
				auth Protec-tionType	Added Enum Attribute 'authProtectionType'

### 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	...	...

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• 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: - STRING, - IP, - BOOLEAN, - INT, - OCTET_STRING	STRING	...

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• 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

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

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Table 3 – 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 3 – 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- quired	Description	Example Values	De- fault Value
name	String	Yes	Resource Name		
id	String	Yes	Resource UUID	f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69	
description	String	No			
changePass- word	Boolean	Yes		true	true
email	String	No		email1@domain.com	
includeSys- temAlarm- sInEmail	Boolean	No		false	
inactiveAc- countN- everDisabled	Boolean	No		true	
enabled	Boolean	Yes		false	
external	Boolean	No		true	
customAt- tributes	String	No	Key Value Map	{“MyCustom- Attribute” : “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

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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	

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• eapTlsSessionTicketTtl	Integer	No	Time to live. The eapTlsSessionTicketTtl is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored	1
• eapTlsSessionTicketTtlUnits	Enum	No	Time to live time units. The eapTlsSessionTicketTtlUnits is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored.	SECONDS
• 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	
• allowPeapEapMsChapV2	Boolean	Yes		true
• allowPeapEapMsChapV2PwdChange	Boolean	No	The allowPeapEapMsChapV2PwdChange is required only if allowPeapEapMsChapV2 is true, otherwise it must be ignored	true

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

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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

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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

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

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

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• eapFastUsePacsStatelessSessionResume	Boolean	No	The eapFastUsePacsStatelessSessionResume is required only if eapFastUsePacs is true, otherwise it must be ignored	false
• eapFastUsePacsAuthorizationPacTtl	Integer	No	The eapFastUsePacsAuthorizationPacTtl is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored	1
• eapFastUsePacsAuthorizationPacTtlUnits	Enum	No	The eapFastUsePacsAuthorizationPacTtlUnits is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored.	SECONDS
• eapFastDontUsePacsAcceptClientCert	Boolean	No	The eapFastDontUsePacsAcceptClientCert is required only if eapFastUsePacs is FALSE, otherwise it must be ignored	false
• 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	
• allowTeapEapMsChapV2	Boolean	Yes		true

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• allowTeapEapMsChapV2PwdChange	Boolean	No	The allowTeapEapMsChapV2PwdChange is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored	true
• allowTeapEapMsChapV2PwdChangeRetries	Integer	No	The allowTeapEapMsChapV2PwdChangeRetries is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3	3
• allowTeapEapTls	Boolean	Yes		true
• allowTeapEapTlsAuthOfExpiredCerts	Boolean	No	The allowTeapEapTlsAuthOfExpiredCerts is required only if allowTeapEapTls is true, otherwise it must be ignored	false
• acceptClientCertDuringTunnelEst	Boolean	Yes		true
• enableEapChaining	Boolean	Yes		false
• 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, 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 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> Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network.</li> <li>• <b>PORTBOUNCE:</b> Resets the port on the network device to which the endpoint is connected</li> <li>• <b>SHUTDOWN</b> : Shuts down the port on the network device to which the endpoint is connected</li> <li>• <b>RE_AUTHENTICATE:</b> 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: 3.1.0).

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- vi- sion #	Re- source Ver- sion	Cisco ISE Ver- sion	Description	Revi- sion Mod- ifica- tion	Revision Modification
				At- tribute	Description
0	1.0	2.2	Initial Cisco ISE Version		
1	1.1	2.3	Support new attributes under common tasks	ac- cessType	Added Attribute 'accessType'. Default value:'ACCESS_ACCEPT', additional values: 'ACCESS_REJECT'
				au- thzPro- file- 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- bRedi- rec- tion	Added Attribute 'webRedirection' to support selection of portal redirection
				acl	Added String Attribute 'acl'
				track- Move- ment	Added Boolean Attribute 'trackMovement'

## Resource Definition

Attribute	Type	Required	Description	Default Values	Example Val- 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			

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• 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 5 – 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 5 – continued from previous page

• 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*, *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*, *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
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Table 6 – 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

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• 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	

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• 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

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• byodRegistrationSuccessSettings	List	No	Configuration of BYOD endpoint Registration Success step configuration		
• successRedirect	Enum	No	After an Authentication Success where should device be redirected.	AUTHSUCCESSPAGE	
• redirectUrl	String	No	Target URL for redirection, used when successRedirect = URL		Redirect URL
• supportInfoSettings	List	No	Configuration of BYOD endpoint welcome step configuration		
• 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

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• 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

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• 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

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• 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

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• 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: 3.1.0).

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, 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 '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-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: 3.1.0).

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: 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	
Default Description	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	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: *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: 3.1.0).

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*



**Raises**

- **TypeError** – If the 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 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\_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 ‘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** (*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 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\_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 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: 3.1.0).

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- quired	Description	Default 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 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: 3.1.0).

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- quired	Description	Default 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: -		

**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 7 – 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 7 – continued from previous page

• 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			
• creationTime	String	No			
• 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, 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	

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• 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		

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• 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			

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• 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	

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• 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	

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• 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		

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• 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	

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• 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- 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: *Cisco12345*

**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\_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, rec\_ord\_s, sec\_ond\_s, headers=None, \*\*query\_parameters*)

AuthenticationStatus by MAC.

**Parameters**

- **`mac`** (*basestring*) – MAC path parameter.
- **`sec_ond_s`** (*basestring*) – SECONDS path parameter.
- **`rec_ord_s`** (*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`** (*end\_poi\_ntm\_ac*, *psn\_name*, *rea\_uth\_type*, *headers=None*, *\*\*query\_parameters*)

Session Reauthentication by MAC.

**Parameters**

- **`psn_name`** (*basestring*) – PSN\_NAME path parameter.
- **`end_poi_ntm_ac`** (*basestring*) – ENDPOINT\_MAC path parameter.
- **`rea_uth_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`** (*dis\_con\_nec\_tty\_pe*, *end\_poi\_nti\_p*, *mac*, *nas\_ipv4*, *psn\_name*, *headers=None*, *\*\*query\_parameters*)

Session Disconnect.

**Parameters**

- **`end_poi_nti_p`** (*basestring*) – ENDPOINT\_IP path parameter.

- **psn\_name** (*basestring*) – PSN\_NAME path parameter.
- **mac** (*basestring*) – MAC path parameter.
- **dis\_con\_nec\_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>

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Table 9 – 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

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Table 9 – 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	

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Table 9 – 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	

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Table 9 – continued from previous page

• 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

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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			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 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\_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: 3.1.0).

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: 3.1.0).

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, 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: 3.1.0).

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,
    security_group=None,
    headers=None,
    payload=None,
    active_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 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: 3.1.0).

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 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** (*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- vi- sion #	Re- source Ver- sion	Cisco ISE Ver- sion	Description	Revision Modifi- 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- tings:sharedSecret	Added Attribute 'shared-Secret' for Tacacs+ sup- port
				tacacsSet- tings:connectModeOptions	Added Attribute 'con- nectModeOptions' for Tacacs+ support
				profileName	Added Attribute 'profile- Name' for 3rd-Party sup- port support
				coaPort	Added Attribute 'coaPort' for 3rd-Party support sup- port
2	1.2	2.4	Cisco ISE 2.4 model changes for Multi shared secret and DTLS Required support	authenticationset- tings:enableMultiSecret	Added Attribute 'enable- MultiSecret' for multiple shared secret
				authenticationset- tings:secondRadiusSharedSecret	Added Attribute 'secon- dRadiusSharedSecret' for multiple shared secret
				authenticationset- tings:dtlsRequired	Added Attribute 'dtlsRe- quired' for dtls settings

### Resource Definition

Attribute	Type	Required	Description	Default Values	Example Val- ues
name	String	Yes	Resource Name		ISE_EST_Local_Host
id	String	No	Resource UUID, manda- tory for update		79aac430- 7cc8- 11eb-ad58- 005056926583
description	String	No			example nd
authenticationSettings	Boolean	Yes			false
• enableKeyWrap	Boolean	Yes		false	
• enabled	Boolean	Yes		false	

Continued on next page

Table 10 – 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 10 – continued from previous page

• 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 10 – continued from previous page

• sharedSecret	String	Yes	Since 2.0		aaa
trustsecsettings	List	Yes			
• deviceAuthenticationSettings	List	Yes			
• sgaDeviceId	String	No			networkDeviceId
• sgaDevicePassword	String	No			aaa
• deviceConfigurationDeployment	List	Yes			
• enableModePassword	String	No			aaa
• execModePassword	String	No			aaa
• execModeUsername	String	No			aaa
• includeWhenDeployingSGTUpdates	Boolean	No		false	
• sgaNotificationAndUpdates	List	Yes			
• downloadEnvironmentDataEveryXSeconds	Integer	No		86400	
• downloadPeerAuthorizationPolicyEveryXSeconds	Integer	No		86400	

Continued on next page

Table 10 – 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, 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\_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 <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	sxpIpAd-dress	Added String Field <code>sxpIpAddress</code> . String represents SXP IP Address of the Node

## 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		
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: *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: 3.1.0).

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 11 – 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 11 – 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 11 – 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 11 – 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- quired	Description	Default Values	Example 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**

At-tribute	Type	Re-quired	Description	Example Values
name	String	Yes	Resource Name	name
id	String	No	Resource UUID, mandatory for update	b1155994-b736-46af-9add-04bed3058e3a
descrip-tion	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: 3.1.0).

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: 3.1.0).

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- sion #	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*, *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, 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\_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*, *virtualnetworklist=None*, *headers=None*, *payload=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: 3.1.0).

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 ot 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- sion #	Resource Version	Cisco ISE Version	Description	Revision 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

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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

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• 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	

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• 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	

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• 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

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• 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”]

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• 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	

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• guestEmailWhitelistDomains	List	No	Self-registered guests whose e-mail address is in one of these domains will be allowed. Only valid if enableGuestEmailWhitelist = true		
• enableGuestEmailBlacklist	Boolean	No	Disallow guests with an e-mail address from selected domains	false	
• guestEmailBlacklistDomains	List	No	Self-registered guests whose e-mail address is in one of these domains will be disallowed. Only valid if enableGuestEmailBlacklist = true		
• requireGuestApproval	Boolean	No	Require self-registered guests to be approved if true	false	
• 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	

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• 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	
• sendApprovalRequestTo	Enum	No	Specifies where approval requests are sent. Only valid if requireGuestApproval = true.	SELECTEDEMAILADDRESSES	
• approvalEmailAddresses	String	No	Only valid if requireGuestApproval = true and sendApprovalRequestTo = SELECTEDEMAILADDRESSES		
• postRegistrationRedirect	Enum	No	After the registration submission direct the guest user to one of the following pages. Only valid if requireGuestApproval = true.	SELFREGISTRATIONSUCCESS	
• postRegistrationRedirectUrl	String	No	URL where guest user is redirected after registration. Only valid if requireGuestApproval = true and postRegistrationRedirect = URL		

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• 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	

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<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	
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Table 12 – continued from previous page

• 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		
• selfRegSuccessSettings	List	No			
• includeUserName	Boolean	No		true	
• includePassword	Boolean	No		true	
• includeFirstName	Boolean	No		true	
• includeLastName	Boolean	No		true	

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Table 12 – 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	

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• 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	

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Table 12 – 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	

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Table 12 – continued from previous page

• aupDisplay	Enum	No	How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.	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		
• successRedirect	Enum	No	After an Authentication Success where should device be redirected.	AUTHSUCCESSPAGE	
• redirectUrl	String	No	Target URL for redirection, used when successRedirect = URL		

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Table 12 – continued from previous page

• authSuccessSettings	List	No			
• successRedirect	Enum	No	After an Authentication Success where should device be redirected.	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	
• includeMacAddr	Boolean	No		false	
• includeIpAddress	Boolean	No		false	
• includeBrowserUserAgent	Boolean	No		false	
• includePolicyServer	Boolean	No		false	
• includeFailureCode	Boolean	No		false	

Continued on next page

Table 12 – 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 12 – 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 12 – 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 12 – 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\_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: 3.1.0).

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

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Table 13 – 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	

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Table 13 – 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

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Table 13 – continued from previous page

• canReinstateSuspendedAccounts	Boolean	No			true
• canApproveSelfregGuests	Boolean	No			true
• limitApprovalToSponsorsGuests	Boolean	Yes			false
• 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

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Table 14 – 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

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Table 14 – 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	

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• 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	
• 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	
• displayFrequencyIntervalDays	Integer	No	Number of days between AUP confirmations (when displayFrequency = recurring)	7	
• sponsorChangePasswordSettings	List	No			

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Table 14 – 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

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• 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

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Table 14 – 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

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Table 14 – 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

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• 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		

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• 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	

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• 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)		

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• 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	

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• 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		

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• 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		

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• 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		

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• 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		

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• 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		

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• 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			

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• 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	Inte-ger	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
<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- quired	Description	Default 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	
<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: 3.1.0).

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- vi- sion #	Re- source Version	Cisco ISE Version	Description	Revision Modifica- 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- 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- signment	Boolean	Yes		true
staticProfileAs- 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:

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: 3.1.0).

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, ac-
                             tive_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 **AcBindings**

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- 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 pass- word		
tenantName	String	No	ACI Cluster Tenant name	ISE	
l3RouteNetwork	String	No	ACI Cluster L3 Route net- work 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	
specificSxpDo- main	Boolean	No	SXP Propagation to spe- cific SXP domains	true	
specifixSxpDo- mainList	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	
untaggedPack- etlepgName	String	No	Untagged IEPG packets name	untagged	
defaultSgtName	String	No	Default SGT name	Unknown	
enableEle- mentsLimit	Boolean	No	Enable Elements Limit	false	
maxNu- mlepgFromAci	Inte- ger	No	Max number of IEPGs	1000	
maxNumSgt- ToAci	Inte- 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,
             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-5bdc2d9fd69
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-vi-sion #	Re-source Ver-sion	Cisco ISE Version	Description	Revision Modifica-tion	Revision Modification
				Attribute	Description
0	1.0	2.2	Initial Cisco ISE Version		
1	1.1	2.4	Support new attributes	advanced-Settings	Added ERSActiveDirectoryAdvancedSettings Attribute 'advancedSettings'
				adAt-tributes	Added ERSActiveDirectoryAttributes Attribute 'adAttributes'
				enable-Domain-WhiteList	Added Boolean Attribute 'enableDomainWhiteList'
2	1.2	3.1	Support new attributes under ActiveDirectory AdvancedSettings	enable-FailedAuth-Protection	Added Boolean Attribute 'enableFailedAuthProtection'
				failedAu-thThresh-old	Added Integer Attribute 'failedAuthThreshold'
				auth Protec-tionType	Added Enum Attribute 'authProtectionType'

### 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

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• 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: - STRING, - IP, - BOOLEAN, - INT, - OCTET_STRING	STRING	...

Continued on next page



Table 16 – 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

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

Continued on next page

Table 16 – 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 16 – 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- quired	Description	Example Values	De- fault Value
name	String	Yes	Resource Name		
id	String	Yes	Resource UUID	f9269682-dcaf-11e3-ad0a-5bdcd2d9fd69	
description	String	No			
changePass- word	Boolean	Yes		true	true
email	String	No		<a href="#">email1@domain.com</a>	
includeSys- temAlarm- sInEmail	Boolean	No		false	
inactiveAc- countN- everDisabled	Boolean	No		true	
enabled	Boolean	Yes		false	
external	Boolean	No		true	
customAt- tributes	String	No	Key Value Map	{“MyCustom- Attribute” : “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

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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	

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• eapTlsSessionTicketTtl	Integer	No	Time to live. The eapTlsSessionTicketTtl is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored	1
• eapTlsSessionTicketTtlUnits	Enum	No	Time to live time units. The eapTlsSessionTicketTtlUnits is required only if eapTlsEnableStatelessSessionResume is true, otherwise it must be ignored.	SECONDS
• 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	
• allowPeapEapMsChapV2	Boolean	Yes		true
• allowPeapEapMsChapV2PwdChange	Boolean	No	The allowPeapEapMsChapV2PwdChange is required only if allowPeapEapMsChapV2 is true, otherwise it must be ignored	true

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

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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

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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
• allowEapFastEapMsChapV2PwdChange	Boolean	No	The allowEap-FastEapM-sChapV2PwdChange is required only if allowEap-FastEapM-sChapV2 is true, otherwise it must be ignored	true
• allowEapFastEapMsChapV2PwdChangeRetries	Integer	No	The allowEap-FastEapM-sChapV2PwdChangeRetries is required only if eapTlsEapM-sChapV2 is true, otherwise it must be ignored. Valid range is 0-3	1
• allowEapFastEapGtc	Boolean	Yes		true
• allowEapFastEapGtcPwdChange	Boolean	No	The allowEap-FastEapGtcPwd-Change is required only if allowEap-FastEapGtc is true, otherwise it must be ignored	true
• allowEapFastEapGtcPwdChangeRetries	Integer	No	The allowEap-FastEapGtcPwd-ChangeRetries is required only if allowEap-FastEapGtc is true, otherwise it must be ignored. Valid range is 0-3	1

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

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

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• eapFastUsePacsStatelessSessionResume	Boolean	No	The eapFastUsePacsStatelessSessionResume is required only if eapFastUsePacs is true, otherwise it must be ignored	false
• eapFastUsePacsAuthorizationPacTtl	Integer	No	The eapFastUsePacsAuthorizationPacTtl is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored	1
• eapFastUsePacsAuthorizationPacTtlUnits	Enum	No	The eapFastUsePacsAuthorizationPacTtlUnits is required only if eapFastUsePacsStatelessSessionResume is true, otherwise it must be ignored.	SECONDS
• eapFastDontUsePacsAcceptClientCert	Boolean	No	The eapFastDontUsePacsAcceptClientCert is required only if eapFastUsePacs is FALSE, otherwise it must be ignored	false
• 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	
• allowTeapEapMsChapV2	Boolean	Yes		true

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• allowTeapEapMsChapV2PwdChange	Boolean	No	The allowTeapEapMsChapV2PwdChange is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored	true
• allowTeapEapMsChapV2PwdChangeRetries	Integer	No	The allowTeapEapMsChapV2PwdChangeRetries is required only if allowTeapEapMsChapV2 is true, otherwise it must be ignored. Valid range is 0-3	3
• allowTeapEapTls	Boolean	Yes		true
• allowTeapEapTlsAuthOfExpiredCerts	Boolean	No	The allowTeapEapTlsAuthOfExpiredCerts is required only if allowTeapEapTls is true, otherwise it must be ignored	false
• acceptClientCertDuringTunnelEst	Boolean	Yes		true
• enableEapChaining	Boolean	Yes		false
• 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, 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 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> Allows you to use Exception policies (authorization policies) to limit or deny an endpoint access to the network.</li> <li>• <b>PORTBOUNCE:</b> Resets the port on the network device to which the endpoint is connected</li> <li>• <b>SHUTDOWN</b> : Shuts down the port on the network device to which the endpoint is connected</li> <li>• <b>RE_AUTHENTICATE:</b> 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: 3.1.1).

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- vi- sion #	Re- source Ver- sion	Cisco ISE Ver- sion	Description	Revi- sion Mod- ifica- tion	Revision Modification
				At- tribute	Description
0	1.0	2.2	Initial Cisco ISE Version		
1	1.1	2.3	Support new attributes under common tasks	ac- cessType	Added Attribute 'accessType'. Default value:'ACCESS_ACCEPT', additional values: 'ACCESS_REJECT'
				au- thzPro- file- 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- bRedi- rec- tion	Added Attribute 'webRedirection' to support selection of portal redirection
				acl	Added String Attribute 'acl'
				track- Move- ment	Added Boolean Attribute 'trackMovement'

## Resource Definition

Attribute	Type	Required	Description	Default Values	Example Val- 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 18 – 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 18 – continued from previous page

			SWITCH is used for Standard Au- thorization 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: DE- FAULT, RA- DIUS_REQUEST		RADIUS_REQUEST
• timer	Integer	Yes	Valid range is 1-65535		1800
advancedAttributes	List	No			
• leftHandSideDictionaryAttribute	List	Yes	Left side Dic- tionary and At- tribute		
• dictionaryName	String	Yes	Dictionary name		
• attributeName	String	Yes	Attribute name		

Continued on next page

Table 18 – continued from previous page

• 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
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Table 19 – 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

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• 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	

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• 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

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• byodRegistrationSuccessSettings	List	No	Configuration of BYOD endpoint Registration Success step configuration		
• successRedirect	Enum	No	After an Authentication Success where should device be redirected.	AUTHSUCCESSPAGE	
• redirectUrl	String	No	Target URL for redirection, used when successRedirect = URL		Redirect URL
• supportInfoSettings	List	No	Configuration of BYOD endpoint welcome step configuration		
• 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

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• 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

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• 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

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• 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

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• 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
description	String	No		
raProfile-Name	String	Yes	RA profile for the Certificate template	ISE internal CA
keySize	Integer	No	Key Size of the Certificate Template	2048 1024
validity	Integer	No	Validity period of the Certificate Template: 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**  
**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 allowSHA1certificates \* required Allow import of certificate with signature that uses the 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 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 allowPortalTagTransferForSameSubject Acquire the group tag of the matching certificate "allowPortalTagTransferForSameSubject": 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 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\_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_
    able_server_identity_check=None, ignore_crl_expiration=None,
    name=None, non_automatic_crl_update_period=None,
    non_automatic_crl_update_units=None, re-
    ject_if_no_status_from_ocs_p=None, re-
    ject_if_unreachable_from_ocs_p=None, se-
    lected_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
name	Friendly name of the certificate	"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	"trustForClientAuth": false	trustForCertificateBasedAdminAuth	Trust for certificate based Admin authentication	false
trustForCiscoServicesAuth	Trust for authentication of Cisco Services	"trustForCiscoServicesAuth": 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	"rejectIfUnreachableFromOCSP": false	downloadCRL	Switch to enable or disable download of CRL	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. 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 is 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 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`

[illegible]

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*

[illegible]

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 ‘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** (*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 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: 3.1.1).

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- quired	Description	Default 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, 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: 3.1.1).

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- quired	Description	Default 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: -		

**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			

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Table 20 – 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

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• 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			
• creationTime	String	No			
• 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	

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• 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		

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Table 21 – 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			

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Table 21 – 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	

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Table 21 – 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	

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Table 21 – 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		

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• 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	

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• 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 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: 3.1.1).

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

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: 3.1.1).

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- 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, ‘[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.

## 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\_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, rec\_ord\_s, sec\_ond\_s, headers=None, \*\*query\_parameters*)

AuthenticationStatus by MAC.

**Parameters**

- **`mac`** (*basestring*) – MAC path parameter.
- **`sec_ond_s`** (*basestring*) – SECONDS path parameter.
- **`rec_ord_s`** (*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`** (*end\_poi\_ntm\_ac*, *psn\_name*, *rea\_uth\_type*, *headers=None*, *\*\*query\_parameters*)

Session Reauthentication by MAC.

**Parameters**

- **`psn_name`** (*basestring*) – PSN\_NAME path parameter.
- **`end_poi_ntm_ac`** (*basestring*) – ENDPOINT\_MAC path parameter.
- **`rea_uth_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`** (*dis\_con\_nec\_tty\_pe*, *end\_poi\_nti\_p*, *mac*, *nas\_ipv4*, *psn\_name*, *headers=None*, *\*\*query\_parameters*)

Session Disconnect.

**Parameters**

- **`end_poi_nti_p`** (*basestring*) – ENDPOINT\_IP path parameter.



- **psn\_name** (*basestring*) – PSN\_NAME path parameter.
- **mac** (*basestring*) – MAC path parameter.
- **dis\_con\_nec\_tty\_pe** (*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> 4a2f-46d9-8653-d925d2dde3aa

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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

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• 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	

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• 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	

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• 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

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• 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

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• 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

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Table 22 – 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

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• 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*, *profile=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: 3.1.1).

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 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, at-
                                     attribute_value=None, children=None, con-
                                     dition_type=None, dates_range=None,
                                     dates_range_exception=None, descrip-
                                     tion=None, dictionary_name=None, dic-
                                     tionary_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, ac-
                                     tive_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’, ‘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_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 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: 3.1.1).

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.

**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: 3.1.1).

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 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: 3.1.1).

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’, ‘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: 3.1.1).

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- vi- sion #	Re- source Ver- sion	Cisco ISE Ver- sion	Description	Revision Modifi- 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- tings:sharedSecret	Added Attribute 'shared-Secret' for Tacacs+ sup- port
				tacacsSet- tings:connectModeOptions	Added Attribute 'con- nectModeOptions' for Tacacs+ support
				profileName	Added Attribute 'profile- Name' for 3rd-Party sup- port support
				coaPort	Added Attribute 'coaPort' for 3rd-Party support sup- port
2	1.2	2.4	Cisco ISE 2.4 model changes for Multi shared secret and DTLS Required support	authenticationset- tings:enableMultiSecret	Added Attribute 'enable- MultiSecret' for multiple shared secret
				authenticationset- tings:secondRadiusSharedSecret	Added Attribute 'secon- dRadiusSharedSecret' for multiple shared secret
				authenticationset- tings:dtlsRequired	Added Attribute 'dtlsRe- quired' for dtls settings

### Resource Definition

Attribute	Type	Required	Description	Default Values	Example Val- ues
name	String	Yes	Resource Name		ISE_EST_Local_Host
id	String	No	Resource UUID, manda- tory for update		79aac430- 7cc8- 11eb-ad58- 005056926583
description	String	No			example nd
authenticationSettings	Boolean	Yes			false
• enableKeyWrap	Boolean	Yes		false	
• enabled	Boolean	Yes		false	

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• 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 23 – continued from previous page

• getIpAddress	String	Yes	It can be either single IP address or IP range address		
• mask	Integer	Yes			32
NetworkDeviceGroup	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 23 – continued from previous page

• sharedSecret	String	Yes	Since 2.0		aaa
trustsecsettings	List	Yes			
• deviceAuthenticationSettings	List	Yes			
• sgaDeviceId	String	No			networkDeviceId
• sgaDevicePassword	String	No			aaa
• deviceConfigurationDeployment	List	Yes			
• enableModePassword	String	No			aaa
• execModePassword	String	No			aaa
• execModeUsername	String	No			aaa
• includeWhenDeployingSGTUpdates	Boolean	No		false	
• sgaNotificationAndUpdates	List	Yes			
• downloadEnvironmentDataEveryXSeconds	Integer	No		86400	
• downloadPeerAuthorizationPolicyEveryXSeconds	Integer	No		86400	

Continued on next page

Table 23 – 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

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: 3.1.1).

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- 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
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: 3.1.1).

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 24 – 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 24 – 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 24 – 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 24 – 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- quired	Description	Default Values	Example 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



- **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- sion #	Resource Version	Cisco ISE Version	Description	Revision 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

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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

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• 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	

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• 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	

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• 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

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• 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”]

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• 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	

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• guestEmailWhitelistDomains	List	No	Self-registered guests whose e-mail address is in one of these domains will be allowed. Only valid if enableGuestEmailWhitelist = true		
• enableGuestEmailBlacklist	Boolean	No	Disallow guests with an e-mail address from selected domains	false	
• guestEmailBlacklistDomains	List	No	Self-registered guests whose e-mail address is in one of these domains will be disallowed. Only valid if enableGuestEmailBlacklist = true		
• requireGuestApproval	Boolean	No	Require self-registered guests to be approved if true	false	
• 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	

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• 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	
• sendApprovalRequestTo	Enum	No	Specifies where approval requests are sent. Only valid if requireGuestApproval = true.	SELECTEDEMAILADDRESSES	
• approvalEmailAddresses	String	No	Only valid if requireGuestApproval = true and sendApprovalRequestTo = SELECTEDEMAILADDRESSES		
• postRegistrationRedirect	Enum	No	After the registration submission direct the guest user to one of the following pages. Only valid if requireGuestApproval = true.	SELFREGISTRATIONSUCCESS	
• postRegistrationRedirectUrl	String	No	URL where guest user is redirected after registration. Only valid if requireGuestApproval = true and postRegistrationRedirect = URL		

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• 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	

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<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	
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• 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		
• selfRegSuccessSettings	List	No			
• includeUserName	Boolean	No		true	
• includePassword	Boolean	No		true	
• includeFirstName	Boolean	No		true	
• includeLastName	Boolean	No		true	

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• 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	

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• 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	

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• 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	

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• aupDisplay	Enum	No	How the AUP should be displayed, either on page or as a link. Only valid if includeAup = true.	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		
• successRedirect	Enum	No	After an Authentication Success where should device be redirected.	AUTHSUCCESSPAGE	
• redirectUrl	String	No	Target URL for redirection, used when successRedirect = URL		

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• authSuccessSettings	List	No			
• successRedirect	Enum	No	After an Authentication Success where should device be redirected.	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	
• includeMacAddr	Boolean	No		false	
• includeIpAddress	Boolean	No		false	
• includeBrowserUserAgent	Boolean	No		false	
• includePolicyServer	Boolean	No		false	
• includeFailureCode	Boolean	No		false	

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• 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

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• 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

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• 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

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• 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\_pxe*: 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 (default)oyees
id	String	No	Resource UUID, mandatory for update		9f1eca71-8c01-11e6-996c-525400b48521

Continued on next page

Table 26 – 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 26 – 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 26 – continued from previous page

• canReinstateSuspendedAccounts	Boolean	No			true
• canApproveSelfregGuests	Boolean	No			true
• limitApprovalToSponsorsGuests	Boolean	Yes			false
• 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

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Table 27 – 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

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Table 27 – 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	

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• 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	
• 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	
• displayFrequencyIntervalDays	Integer	No	Number of days between AUP confirmations (when displayFrequency = recurring)	7	
• sponsorChangePasswordSettings	List	No			

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Table 27 – 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

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• 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

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Table 27 – 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

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Table 27 – 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

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• 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		

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• 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	

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• 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 lim- iting	2	
• includeAup	Boolean	No	Include an Ac- ceptable 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. Al- lowed values: ONPAGE, ASLINK	ASLINK	
• requireAupAcceptance	Boolean	No	Require the portal user to accept the AUP. Only valid if in- cludeAup = 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 requireAc- cessCode = true)		

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• 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	

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• 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		

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• 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		

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Table 28 – 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

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• 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		

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Table 28 – 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		

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• 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			

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Table 28 – 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, SPONSOREDGUEST, 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

Attribute	Type	Required	Description	Example Values
name	String	Yes	Resource Name	ciscoise
id	String	No	Resource UUID, mandatory for update	ciscoise
description	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
message	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\_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\_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	
<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: 3.1.1).

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- quired	Description	Default 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	
<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: 3.1.1).

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- vi- sion #	Re- source Version	Cisco ISE Version	Description	Revision Modifica- 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- 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- signment	Boolean	Yes		true
staticProfileAs- 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- 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.

## 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

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## 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 2.0.1 - 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`

### 2.3.3 2.0.0 - 2022-03-24

#### Removed

- Removed `access_token` property of `IdentityServicesEngineAPI` and `RestSession`.
- Drop ISE version 3.0.0 support.

### 2.3.4 1.5.1 - 2022-02-25

#### 2.3.5 Changed

- Update docstring documentation of modules and functions.

### 2.3.6 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 and 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.

### 2.3.7 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.

### 2.3.8 1.4.1 - 2022-01-20

#### Changed

- Update module inner documentation.
- Downgrade requirements file to use poetry versions.

### 2.3.9 1.4.0 - 2022-01-19

#### Changed

- Update requirements

#### Fixed

- Update pagination, `get_next_page` inner logic and location from `utils` to `pagination`.

### 2.3.10 1.3.1 - 2021-12-13

#### Changed

- Fixes `utils.get_next_page` generator starting default page

### 2.3.11 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

### 2.3.12 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

### 2.3.13 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

### 2.3.14 1.0.1 - 2021-09-14

#### Changed

- Disabled warnings of urllib3 if verify is False

### 2.3.15 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` 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` to `delete_network_access_policy_set_global_exception_rule_by_id`
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- (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`
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- (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`
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- (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.

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