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# Python vManage

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**Cisco Public Sector**

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*python-viptela* provides a Python SDK for interacting with Cisco SDWAN (formerly Viptela).



## API REFERENCE

This page contains auto-generated API reference documentation<sup>1</sup>.

### 1.1 `utils`

#### 1.1.1 Module Contents

`utils.list_to_dict` (*lst*, *key\_name*, *remove\_key=True*)

Convert a list of dictionaries into a dictionary of dictionaries.

**Parameters**

- **key\_name** – The name of the key from the child dictionary to use to use in the parent.
- **remove\_key** – Remove the key used for the parent dictionary from the child.

**Returns** The resulting dictionary.

**Return type** result (dict)

### 1.2 `data`

#### 1.2.1 Submodules

##### `data.parse_methods`

Parse Methods for Data Returned by Cisco vManage.

##### Module Contents

`data.parse_methods.VALID_STATUS_CODES` = [200, 201, 202, 203, 204, 205, 206, 207, 208, 226]

**class** `data.parse_methods.ParseMethods`

Reset all configuratio on a vManage instance.

Executes the necessary REST calls in specific order to remove configurations applied to a vManage instance.

**static parse\_data** (*response*)

Parse data and provide error handling for missing data.

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<sup>1</sup> Created with `sphinx-autoapi`

**Parameters** `response` (*obj*) – Requests response object

**Returns** All data associated with a response.

**Return type** result (dict)

**Raises** **Exception** – Provides error message and details of issue.

**static** `parse_status` (*response*)

Retrieve status code for transactions that do not receive a response.

**Parameters** `response` (*obj*) – Requests response object

**Returns** All data associated with a response.

**Return type** result (dict)

**static** `parse_config` (*response*)

Parse config and provide error handling for missing data.

**Parameters** `response` (*obj*) – Requests response object

**Returns** All data associated with a response.

**Return type** result (dict)

**Raises** **Exception** – Provides error message and details of issue.

**static** `parse_id` (*response*)

Parse id and provide error handling for missing data.

**Parameters** `response` (*obj*) – Requests response object

**Returns** All data associated with a response.

**Return type** result (dict)

**Raises** **Exception** – Provides error message and details of issue.

## `data.policy_data`

Cisco vManage Policy Methods.

## Module Contents

**class** `data.policy_data.PolicyData` (*session, host, port=443*)

Bases: object

Methods that deal with importing, exporting, and manipulating data from policies.

**import\_policy\_list\_list** (*self, policy\_list\_list, push=False, update=False, check\_mode=False, force=False*)

Import a list of policies lists into vManage. Object Names are translated to IDs.

### Parameters

- **policy\_list\_list** – A list of policies
- **push** (*bool*) – Whether to push a change out
- **update** (*bool*) – Whether to update when the list exists
- **check\_mode** (*bool*) – Report what updates would happen, but don't update

**Returns** All data associated with a response.

**Return type** result (dict)

**convert\_list\_name\_to\_id** (*self, name\_list*)

Convert policy list from names to IDs in object.

**Parameters** *name\_list* (*list*) – Object

**convert\_list\_id\_to\_name** (*self, id\_list*)

Convert policy list from IDs to names in object.

**Parameters** *id\_list* (*list*) – Object

**convert\_sequences\_to\_id** (*self, sequence\_list*)

Convert sequence entries from IDs to names in object.

**Parameters** *sequence\_list* (*list*) – Sequence list

**convert\_definition\_id\_to\_name** (*self, policy\_definition*)

Convert policy\_definition from IDs to names in object.

**Parameters** *policy\_definition* (*list*) – Sequence list

**convert\_definition\_name\_to\_id** (*self, policy\_definition*)

Convert policy\_definition from names to IDs in object.

**Parameters** *policy\_definition* (*list*) – Sequence list

**convert\_policy\_definition\_to\_name** (*self, policy\_definition*)

Convert policy\_definition objects from IDs to names

**Parameters** *policy\_definition* (*list*) – Sequence list

**Returns** The converted policy definition

**Return type** result (dict)

**convert\_policy\_definition\_to\_id** (*self, policy\_definition*)

Convert policy\_definition objects from names to IDs

**Parameters** *policy\_definition* (*list*) – Sequence list

**Returns** The converted policy definition

**Return type** result (dict)

**export\_policy\_definition\_list** (*self, definition\_type='all'*)

Export Policy Definition Lists from vManage, translating IDs to Names.

**Parameters** *definition\_type* (*string*) – The type of Definition List to retrieve

**Returns**

A list of all definition lists currently in vManage.

**Return type** response (list)

**import\_policy\_definition\_list** (*self, policy\_definition\_list, update=False, push=False, check\_mode=False, force=False*)

Import Policy Definitions into vManage. Object names are converted to IDs.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

**convert\_policy\_to\_name** (*self, policy\_item*)

Convert policy items from IDs to names

**Parameters** `definition_type` (*string*) – Policy item

**Returns** The converted policy item

**Return type** response (dict)

**convert\_policy\_to\_id** (*self, policy\_item*)

Convert policy items from names IDs

**Parameters** `definition_type` (*string*) – Policy item

**Returns** The converted policy item

**Return type** response (dict)

**export\_local\_policy\_list** (*self*)

Export Local Policies from vManage. Object IDs are converted to names.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

**import\_local\_policy\_list** (*self, local\_policy\_list, update=False, push=False, check\_mode=False, force=False*)

Import Local Policies into vManage. Object names are converted to IDs.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

**export\_central\_policy\_list** (*self*)

Export Central Policies from vManage, converting IDs to names.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

**import\_central\_policy\_list** (*self, central\_policy\_list, update=False, push=False, check\_mode=False, force=False*)

Import Central Policies into vManage. Object names are converted to IDs.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

**export\_security\_policy\_list** (*self*)

Export Security Policies from vManage, converting IDs to names.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

**import\_security\_policy\_list** (*self, security\_policy\_list, update=False, push=False, check\_mode=False, force=False*)

Import Security Policies into vManage. Object names are converted to IDs.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

## `data.template_data`

Cisco vManage Templates Methods.

### Module Contents

**class** `data.template_data.TemplateData` (*session, host, port=443*)

Bases: object

Methods that deal with importing, exporting, and converting data from templates.

**convert\_device\_template\_to\_name** (*self, device\_template*)

Convert a device template objects from IDs to Names.

**Parameters** `device_template` (*dict*) – Device Template

**Returns** Converted Device Template.

**Return type** result (dict)

**convert\_device\_template\_to\_id** (*self, device\_template*)

Convert a device template objects from Names to IDs.

**Parameters** `device_template` (*dict*) – Device Template

**Returns** Converted Device Template.

**Return type** result (dict)

**generalTemplates\_to\_id** (*self, generalTemplates*)

Convert a generalTemplates object from Names to IDs.

**Parameters** `generalTemplates` (*dict*) – generalTemplates object

**Returns** Converted generalTemplates object.

**Return type** result (dict)

**import\_feature\_template\_list** (*self, feature\_template\_list, push=False, check\_mode=False, update=False*)

Import a list of feature templates from list to vManage. Object Names are converted to IDs.

**Parameters**

- **feature\_template\_list** (*list*) – List of feature templates
- **check\_mode** (*bool*) – Only check to see if changes would be made
- **update** (*bool*) – Update the template if it exists

**Returns** Returns the diffs of the updates.

**Return type** result (list)

**export\_device\_template\_list** (*self, factory\_default=False, name\_list=None*)

Export device templates from vManage into a list. Object IDs are converted to Names.

**Parameters**

- **factory\_default** (*bool*) – Include factory default
- **name\_list** (*list of strings*) – A list of template names to retrieve.

**Returns** All data associated with a response.

**Return type** result (dict)

**import\_device\_template\_list** (*self*, *device\_template\_list*, *check\_mode=False*, *update=False*, *push=False*)

Import a list of device templates from list to vManage. Object Names are converted to IDs.

**Parameters**

- **device\_template\_list** (*list*) – List of device templates
- **check\_mode** (*bool*) – Only check to see if changes would be made
- **update** (*bool*) – Update the template if it exists

**Returns** Returns the diffs of the updates.

**Return type** result (list)

**import\_attachment\_list** (*self*, *attachment\_list*, *check\_mode=False*, *update=False*)

Import a list of device attachments to vManage.

**Parameters**

- **attachment\_list** (*list*) – List of attachments
- **check\_mode** (*bool*) – Only check to see if changes would be made
- **update** (*bool*) – Update the template if it exists

**Returns** Returns the diffs of the updates.

**Return type** result (list)

**subTemplates\_to\_name** (*self*, *old\_template*, *feature\_template\_dict*)

Convert a Sub Template objects from IDs to Names.

**Parameters**

- **old\_template** (*dict*) – a device template
- **feature\_template\_dict** (*dict*) – dict of all the feature templates

**Returns** Converted Device Template.

**Return type** result (dict)

**subTemplates\_to\_id** (*self*, *template*, *feature\_template\_dict*)

Convert a Sub Template objects from IDs to Names.

**Parameters**

- **template** (*dict*) – a device template
- **feature\_template\_dict** (*dict*) – dict of all the feature templates

**Returns** Converted Device Template.

**Return type** result (dict)

## 1.2.2 Package Contents

`data.name = vmanage.data`

## 1.3 apps

### 1.3.1 Submodules

`apps.clean`

Clean vManage Resources.

#### Module Contents

**class** `apps.clean.CleanVmanage` (*session, host, port=443*)

Bases: `object`

Reset all configurations on a vManage instance.

Executes the necessary REST calls in specific order to remove configurations applied to a vManage instance.

**active\_count\_delay** (*self*)

Delay while there are active tasks.

**clean\_vedge\_attachments** (*self*)

Clean all vedge attachments

**clean\_vedge** (*self*)

Clean all vedges

**clean\_controller\_attachments** (*self*)

Clean all controller attachments

**clean\_device\_templates** (*self*)

Clean all device templates

**clean\_feature\_templates** (*self*)

Clean all feature templates

**clean\_central\_policy** (*self*)

Clean all central policy

**clean\_local\_policy** (*self*)

Clean all local policy

**clean\_policy\_definitions** (*self*)

Clean all policy definitions

**clean\_policy\_lists** (*self*)

Clean all policy lists

**clean\_security\_policy** (*self*)

Clean all security policy

**clean\_all** (*self*)

Clean everything in vManage

## apps.files

Cisco vManage Files API Methods.

### Module Contents

**class** apps.files.**Files** (*session, host, port=443*)

Bases: object

Read and write data to file.

**export\_templates\_to\_file** (*self, export\_file, name\_list=None, template\_type=None*)

Export templates to a file. All object IDs will be translated to names. Use a '.yaml' extension to export as YAML and a '.json' extension to export as JSON.

#### Parameters

- **export\_file** (*str*) – The name of the export file
- **name\_list** (*list*) – List of device templates to export
- **template\_type** (*str*) – Template type: device or template

**import\_templates\_from\_file** (*self, import\_file, update=False, check\_mode=False, name\_list=None, template\_type=None*)

Import templates from a file. All object Names will be translated to IDs.

#### Parameters

- **import\_file** (*str*) – The name of the import file
- **name\_list** (*list*) – List of device templates to export
- **template\_type** (*str*) – Template type: device or template
- **check\_mode** (*bool*) – Try the import, but don't make changes (default: False)
- **update** (*bool*) – Update existing templates (default: False)

**export\_policy\_to\_file** (*self, export\_file*)

Export policy to a file. All object IDs will be translated to names. Use a '.yaml' extension to export as YAML and a '.json' extension to export as JSON.

**Parameters export\_file** (*str*) – The name of the export file

**import\_policy\_from\_file** (*self, file, update=False, check\_mode=False, push=False*)

Import policy from a file. All object Names will be translated to IDs.

#### Parameters

- **import\_file** (*str*) – The name of the import file
- **check\_mode** (*bool*) – Try the import, but don't make changes (default: False)
- **update** (*bool*) – Update existing templates (default: False)
- **push** (*bool*) – Push templates to devices if changed (default: False)

**export\_attachments\_to\_file** (*self, export\_file, name\_list=None, device\_type=None*)

Export attachments to a file. All object IDs will be translated to names. Use a '.yaml' extension to export as YAML and a '.json' extension to export as JSON.

**Parameters export\_file** (*str*) – The name of the export file

**import\_attachments\_from\_file** (*self*, *import\_file*, *update=False*, *check\_mode=False*,  
*name\_list=None*)

Import attachments from a file. All object Names will be translated to IDs.

**Parameters**

- **import\_file** (*str*) – The name of the import file
- **check\_mode** (*bool*) – Try the import, but don't make changes (default: False)
- **update** (*bool*) – Update existing templates (default: False)

## 1.3.2 Package Contents

`apps.name = vmanage.apps`

## 1.4 api

### 1.4.1 Submodules

`api.authentication`

Cisco vManage Authentication API Methods.

#### Module Contents

**class** `api.authentication.Authentication` (*host=None*, *user=None*, *password=None*,  
*port=443*, *validate\_certs=False*, *timeout=10*)

Bases: `object`

vManage Authentication API

Responsible for retrieving the JSESSIONID after a username/password has been authenticated. If the vManage version is  $\geq 19.2.0$  then the X-XSRF-TOKEN will be retrieved and added to the header. An HTTP(S) Request session object will be returned.

**login** (*self*)

Executes login tasks against vManage to retrieve token(s).

**Parameters** `None`. –

**Returns** a Requests session with JSESSIONID and an X-XSRF-TOKEN for vManage version  $\geq 19.2.0$ .

**Return type** `self.session`

**Raises**

- **LoginFailure** – If the username/password are incorrect.
- **RequestException** – If the host is not accessible.

## api.central\_policy

Cisco vManage Centralized Policy API Methods.

### Module Contents

**class** api.central\_policy.**CentralPolicy** (*session, host, port=443*)

Bases: object

vManage Central Policy API

Responsible for DELETE, GET, POST, PUT methods against vManage Central Policy.

**activate\_central\_policy** (*self, policy\_name, policy\_id*)

Activates the current active centralized policy

**Parameters** **policyId** (*str*) – ID of the active centralized policy

**Returns** The Action ID from the activation.

**Return type** action\_id (str)

**reactivate\_central\_policy** (*self, policy\_id*)

reActivates the current active centralized policy

**Parameters** **policyId** (*str*) – ID of the active centralized policy

**Returns** The Action ID from the activation.

**Return type** action\_id (str)

**deactivate\_central\_policy** (*self, policy\_id*)

Deactivates the current active centralized policy

**Parameters** **policyId** (*str*) – ID of the deactivate centralized policy

**Returns** The Action ID from the activation.

**Return type** result (str)

**add\_central\_policy** (*self, policy*)

Delete a Central Policy from vManage.

**Parameters** **policy** – The Central Policy

**Returns** All data associated with a response.

**Return type** result (dict)

**update\_central\_policy** (*self, policy, policy\_id*)

Update a Central from vManage.

**Parameters**

- **policy** – The Central Policy
- **policy\_id** – The ID of the Central Policy to update

**Returns** All data associated with a response.

**Return type** result (dict)

**delete\_central\_policy** (*self, policyId*)

Deletes the specified centralized policy

**Parameters** **policyId** (*str*) – ID of the active centralized policy

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_central\_policy** (*self*)

Obtain a list of all configured central policies

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_central\_policy\_list** (*self*)

Get all Central Policies from vManage.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (list)

**get\_central\_policy\_dict** (*self*, *key\_name='policyName'*, *remove\_key=False*)

Get all Central Policies from vManage.

**Parameters**

- **key\_name** (*str*) – The name of the attribute to use as the key
- **remove\_key** (*bool*) – Remove the key from the dict (default: False)

**Returns**

A dict of all Central Policies currently in vManage.

**Return type** response (dict)

## api.certificate

Cisco vManage Certificate API Methods.

### Module Contents

**class** api.certificate.Certificate (*session*, *host*, *port=443*)

Bases: object

vManage Certificate API

Responsible for DELETE, GET, POST, PUT methods against vManage Certificates.

**generate\_csr** (*self*, *device\_ip*)

Generate CSR for device

**Parameters** **device\_ip** (*str*) – IP address of device.

**Returns** The CSR for the device.

**Return type** deviceCSR (str)

**install\_device\_cert** (*self*, *cert*)

Install signed cert on vManage

**Parameters** **cert** (*str*) – The certificate to install.

**Returns** The action ID of the install command.

**Return type** id (str)

**push\_certificates** (*self*)

Push certificates to all controllers

**Returns** The action ID of the push command.

**Return type** id (str)

**get\_vmanage\_root\_cert** (*self*)

Get vManage root certificate

Args:

**Returns** The root certificate.

**Return type** rootcertificate (str)

## api.cluster

Cisco vManage Cluster API Methods.

### Module Contents

**class** api.cluster.Cluster (*session, host, port=443*)

Bases: object

vManage Cluster API

Responsible for DELETE, GET, POST, PUT methods against vManage Cluster.

**get\_cluster\_connected\_devices\_list** (*self, vmanage\_cluster\_ip*)

Obtain vManage cluster connected devices

**Parameters** **vmanage\_cluster\_ip** (*str*) – vManage cluster interface IP address

**Returns** All data associated with a response.

**Return type** result (list)

**get\_cluster\_health\_details\_list** (*self*)

Obtain vManage cluster health details

**Parameters** **None** (*None*) –

**Returns** All data associated with a response.

**Return type** result (list)

**get\_cluster\_health\_status\_list** (*self*)

Obtain vManage cluster health status

**Parameters** **None** (*None*) –

**Returns** All data associated with a response.

**Return type** result (list)

**get\_cluster\_list** (*self*)

Obtain vManage cluster list

**Parameters** **None** (*None*) –

**Returns** All data associated with a response.

**Return type** result (list)

**get\_cluster\_ip\_addresses\_dict** (*self*)

Obtain vManage cluster IP addresses

**Parameters** **None** (*None*) –

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cluster\_ready\_state** (*self*)

Obtain vManage cluster ready state

**Parameters** **None** (*None*) –

**Returns** All data associated with a response.

**Return type** result (bool)

**get\_cluster\_node\_properties** (*self*)

Obtain connected vManage cluster node properties

**Parameters** **None** (*None*) –

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cluster\_tenancy\_mode** (*self*)

Obtain vManage cluster tenancy mode

**Parameters** **None** (*None*) –

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cluster\_vmanage\_details\_list** (*self*, *vmanage\_cluster\_ip*)

Obtain vManage cluster specific vManage details using cluster interface IP

**Parameters** **vmanage\_cluster\_ip** (*str*) – vManage cluster interface IP address

**Returns** All data associated with a response.

**Return type** result (list)

## api.device

Cisco vManage Device Inventory API Methods.

### Module Contents

**class** `api.device.Device` (*session*, *host*, *port=443*)

Bases: object

vManage Device Inventory API

Responsible for DELETE, GET, POST, PUT methods against vManage Device Inventory.

**get\_device\_list** (*self*, *category*)

Obtain a list of specified device type

**Parameters** **category** (*str*) – vedges or controllers

**Returns** All data associated with a response.

**Return type** result (dict)

**post\_device\_cli\_mode** (*self*, *deviceId*, *deviceType*)

Update a device to CLI mode

**Parameters**

- **deviceId** (*str*) – uuid for device object
- **deviceType** (*str*) – vedge or controller

**get\_device\_status\_list** (*self*)

Obtain a list of specified device type

Args: None

**Returns** Device status

**Return type** result (list)

**get\_device\_status\_dict** (*self*, *key\_name*='host-name', *remove\_key*=False)

Obtain a dict of specified device type

**Parameters** **category** (*str*) – vedges or controllers

**Returns** Device status

**Return type** result (dict)

**get\_device\_status** (*self*, *value*, *key*='system-ip')

Get the status of a specific device

**Parameters**

- **string** (*value*) – The value of the key to match
- **key** (*string*) – The key on which to match (e.g. system-ip)

**Returns** Device status

**Return type** result (dict)

**get\_device\_config** (*self*, *device\_type*, *value*, *key*='system-ip')

Get the config of a specific device

**Parameters**

- **string** (*value*) – The value of the key to match
- **key** (*string*) – The key on which to match (e.g. system-ip)

**Returns** Device config

**Return type** result (dict)

**get\_device\_config\_list** (*self*, *device\_type*)

**Get the config status of a list of devices. When ‘all’ is specified, it concatenats** the vedges and controller together to provide a single method to retrieve status in the same way as `get_device_status_list`.

**Parameters** **device\_type** (*str*) – ‘vedges’, ‘controllers’, or ‘all’

**Returns** All data associated with a response.

**Return type** result (list)

**get\_device\_config\_dict** (*self*, *device\_type*, *key\_name*='host-name', *remove\_key*=False)

Get the config status of a list of devices as a dictionary

**Parameters**

- **device\_type** (*str*) – vedge or controller
- **key\_name** (*string*) – The name of the attribute to use as the dictionary key
- **remove\_key** (*boolean*) – remove the search key from the element

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_device\_data** (*self, path, device\_ip*)

Get the data from a device

**Parameters**

- **path** (*str*) – The path of the data
- **device\_ip** (*str*) – The IP address of the device

**Returns** All data associated with a response.

**Return type** result (dict)

**put\_device\_decommission** (*self, device\_id*)

Decommission a device

**Parameters** **device\_id** (*str*) – uuid for device object

**Returns** Device status

**Return type** result (list)

**post\_device** (*self, device\_ip, personality, username, password*)

Add control plane device

**Parameters**

- **device\_ip** (*str*) – device interface IP
- **personality** (*str*) – controller type (vmanage, vsmart, vbond)
- **username** (*str*) – device username
- **password** (*str*) – device password

**Returns** Device status

**Return type** result (list)

**post\_reset\_interface** (*self, device\_ip, vpn\_id, ifname*)

Reset an Interface :param device\_ip: device IP for device object :type device\_ip: str :param vpn\_id: VPN Id for Interface :type vpn\_id: int :param ifname: Interface name to reset :type ifname: str

**Returns** HTTP response status

**Return type** result (int)

## api.device\_templates

Cisco vManage Device Templates API Methods.

### Module Contents

**class** api.device\_templates.**DeviceTemplates** (*session, host, port=443*)

Bases: object

vManage Device Templates API

Responsible for DELETE, GET, POST, PUT methods against vManage Device Templates.

**delete\_device\_template** (*self, templateId*)

Obtain a list of all configured device templates.

**Parameters** **templateId** (*str*) – Object ID for device template

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_device\_templates** (*self*)

Obtain a list of all configured device templates.

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_device\_template\_object** (*self, template\_id*)

Obtain a device template object.

**Parameters** **template\_id** (*str*) – Object ID for device template

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_device\_template\_list** (*self, factory\_default=False, name\_list=None*)

Get the list of device templates.

**Parameters**

- **factory\_default** (*bool*) – Include factory default
- **name\_list** (*list of strings*) – A list of template names to retrieve.

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_device\_template\_dict** (*self, factory\_default=False, key\_name='templateName', remove\_key=True, name\_list=None*)

Obtain a dictionary of all configured device templates.

**Parameters**

- **factory\_default** (*bool*) – Wheter to return factory default templates
- **key\_name** (*string*) – The name of the attribute to use as the dictionary key
- **remove\_key** (*boolean*) – remove the search key from the element
- **name\_list** (*list of strings*) – A list of template names to retrieve.

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_template\_attachments** (*self*, *template\_id*, *key='host-name'*)

Get the devices that a template is attached to.

**Parameters**

- **template\_id** (*string*) – Template ID
- **key** (*string*) – The key of the device to put in the list (default: host-name)

**Returns** List of keys.

**Return type** result (list)

**get\_template\_input** (*self*, *template\_id*, *device\_id\_list=None*)

Get the input associated with a device attachment.

**Parameters**

- **template\_id** (*string*) – Template ID
- **device\_id\_list** (*list*) – list of device UUID's to get input for

**Returns** All data associated with a response.

**Return type** result (dict)

**add\_device\_template** (*self*, *device\_template*)

Add a single device template to Vmanage.

**Parameters** **device\_template** (*dict*) – Device Template

**Returns** Response from Vmanage

**Return type** result (list)

**update\_device\_template** (*self*, *device\_template*)

Update a single device template to Vmanage.

**Parameters** **device\_template** (*dict*) – Device Template

**Returns** Response from Vmanage

**Return type** result (list)

**reattach\_device\_template** (*self*, *template\_id*, *config\_type*, *is\_edited=True*,  
*is\_master\_edited=True*)

Re-Attach a template to the devices it it attached to.

**Parameters**

- **template\_id** (*str*) – The template ID to attach to
- **config\_type** (*str*) – Type of template i.e. device or CLI template
- **is\_edited** (*bool*) – True if the template has been edited
- **is\_master\_edited** (*bool*) – For CLI device template needs to match is\_edited. For device templates using feature templates needs to be set to False.

**Returns** Returns the action id of the attachment

**Return type** action\_id (str)

**attach\_to\_template** (*self*, *template\_id*, *config\_type*, *uuid*)

Attach and device to a template

**Parameters**

- **template\_id** (*str*) – The template ID to attach to
- **config\_type** (*str*) – Type of template i.e. device or CLI template
- **uuid** (*dict*) – The UUIDs of the device to attach and mapping for corresponding variables, system-ip, host-name

**Returns** Returns the action id of the attachment

**Return type** action\_id (str)

**detach\_from\_template** (*self, uuid, device\_ip, device\_type*)

Detach a device from a template (i.e. Put in CLI mode)

**Parameters**

- **uuid** (*str*) – The UUID of the device to detach
- **device\_ip** (*str*) – The System IP of the system to detach
- **device\_type** (*str*) – The device type of the device to detach

**Returns** Returns the action id of the attachment

**Return type** action\_id (str)

**get\_attachments** (*self, template\_id, key='host-name'*)

Get a list of attachments to a particular template.

**Parameters**

- **template\_id** (*str*) – Template ID of the template
- **key** (*str*) – The key of the elements to return

**Returns** Returns the specified key of the attached devices.

**Return type** result (list)

**get\_device\_running\_config** (*self, uuid*)

Get the running configuration of a specific device.

**Parameters** **uuid** (*str*) – UUID of device

**Returns** The running configuration of the specified device.

**Return type** result (str)

**reattach\_multi\_device\_templates** (*self, template\_ids*)

Re-Attach a template to the devices it it attached to.

**Parameters**

- **template\_id** (*str*) – The template ID to attach to
- **config\_type** (*str*) – Type of template i.e. device or CLI template
- **is\_edited** (*bool*) – True if the template has been edited
- **is\_master\_edited** (*bool*) – For CLI device template needs to match is\_edited. For device templates using feature templates needs to be set to False.

**Returns** Returns the action id of the attachment

**Return type** action\_id (str)

**get\_multi\_attach\_payload** (*self, template\_ids*)

**api.feature\_templates**

Cisco vManage Feature Templates API Methods.

**Module Contents**

**class** `api.feature_templates.FeatureTemplates` (*session, host, port=443*)

Bases: `object`

vManage Feature Templates API

Responsible for DELETE, GET, POST, PUT methods against vManage Feature Templates.

**delete\_feature\_template** (*self, templateId*)

Obtain a list of all configured feature templates.

**Parameters** `templateId` (*str*) – Object ID for feature template

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_feature\_templates** (*self*)

Obtain a list of all configured feature templates.

**Returns** All data associated with a response.

**Return type** result (dict)

**add\_feature\_template** (*self, feature\_template*)

Add a feature template to Vmanage.

**Parameters** `feature_template` (*dict*) – Feature Template

**Returns** Response from Vmanage

**Return type** result (list)

**update\_feature\_template** (*self, feature\_template*)

Update a feature template on Vmanage.

**Parameters** `feature_template` (*dict*) – Feature Template

**Returns** Response from Vmanage

**Return type** result (list)

**get\_feature\_template\_list** (*self, factory\_default=False, name\_list=None*)

Obtain a list of all configured feature templates.

**Parameters**

- **factory\_default** (*bool*) – Whether to return factory default templates
- **name\_list** (*list of strings*) – A list of the template names to return

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_feature\_template\_dict** (*self, factory\_default=False, key\_name='templateName', remove\_key=True, name\_list=None*)

Obtain a dictionary of all configured feature templates.

**Parameters**

- **factory\_default** (*bool*) – Whether to return factory default templates
- **key\_name** (*string*) – The name of the attribute to use as the dictionary key
- **remove\_key** (*boolean*) – Remove the search key from the element
- **name\_list** (*list of strings*) – A list of the template names to return

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_device\_templates\_for\_feature** (*self, templateId*)

Obtain a list of device templates for given feature template

**Parameters** **templateId** – (str) Feature template ID to find device templates for

**Returns** All data associated with a response.

**Return type** result (dict)

## api.http\_methods

### Module Contents

api.http\_methods.STANDARD\_HEADERS

api.http\_methods.STANDARD\_TIMEOUT = 10

api.http\_methods.VALID\_STATUS\_CODES = [200, 201, 202, 203, 204, 205, 206, 207, 208, 226]

**class** api.http\_methods.HttpMethods (*session, url*)

Bases: object

HTTP Methods for vManage API Interaction

Provides a consistent interaction with the vManage REST API. Contains error handling for common HTTP interaction issues.

**request** (*self, method, headers=None, payload=None, files=None, timeout=STANDARD\_TIMEOUT*)

Performs HTTP REST API Call.

#### Parameters

- **method** (*str*) – DELETE, GET, POST, PUT
- **headers** (*dict*) – Use standard vManage header provided in module or custom header for specific API interaction
- **payload** (*str*) – A formatted string to be delivered to vManage via POST or PUT REST call
- **file** (*obj*) – A file to be sent to vManage

#### Returns

A parsable dictionary containing the full response from vManage for an interaction

**Return type** result (dict)

#### Raises

- **JSONDecodeError** – Payload format error.
- **ConnectionError** – Connection error.

- **HTTPError** – An HTTP error occurred.
- **URLRequired** – A valid URL is required to make a request.
- **TooManyRedirects** – Too many redirects.
- **Timeout** – The request timed out.
- **RequestException** – There was an ambiguous exception.

## api.local\_policy

Cisco vManage Localized Policy API Methods.

### Module Contents

**class** `api.local_policy.LocalPolicy` (*session, host, port=443*)

Bases: `object`

vManage Local Policy API

Responsible for DELETE, GET, POST, PUT methods against vManage Local Policy.

**add\_local\_policy** (*self, policy*)

Delete a Central Policy from vManage.

**Parameters** `policy` – The Central Policy

**Returns** All data associated with a response.

**Return type** `result (dict)`

**update\_local\_policy** (*self, policy, policy\_id*)

Update a Central from vManage.

**Parameters**

- `policy` – The Central Policy

- `policy_id` – The ID of the Central Policy to update

**Returns** All data associated with a response.

**Return type** `result (dict)`

**delete\_local\_policy** (*self, policy\_id*)

Deletes the specified local policy

**Parameters** `policyId (str)` – ID of the active local policy

**Returns** All data associated with a response.

**Return type** `result (dict)`

**get\_local\_policy** (*self*)

Obtain a list of all configured local policies

**Returns** All data associated with a response.

**Return type** `result (dict)`

**get\_local\_policy\_list** (*self*)

Get all Central Policies from vManage.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

**get\_local\_policy\_dict** (*self*, *key\_name*='policyName', *remove\_key*=False)

Get all Local Policies from vManage.

**Parameters**

- **key\_name** (*str*) – The name of the attribute to use as the key
- **remove\_key** (*bool*) – Remove the key from the dict (default: False)

**Returns**

A dict of all Local Polices currently in vManage.

**Return type** response (dict)

## `api.monitor_network`

Cisco vManage Monitor Networks API Methods.

### Module Contents

**class** `api.monitor_network.MonitorNetwork` (*session*, *host*, *port*=443)

Bases: object

vManage Monitor Networks API

Responsible for GET methods against vManage Real Time Monitoring for network devices.

**\_get\_device\_type** (*self*, *system\_ip*)

**\_ipsec\_query\_params** (*self*, *query\_params*, *\*\*kwargs*)

**get\_aaa\_users** (*self*, *system\_ip*)

Provides AAA users for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** Device ARP table data.

**Return type** result (dict)

**get\_arp\_table** (*self*, *system\_ip*)

Provides ARP entries for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** Device ARP table data.

**Return type** result (dict)

**get\_bfd\_history** (*self*, *system\_ip*, *\*\*kwargs*)

Provides BFD history for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **remote\_system\_ip** (*str*) – (Optional) Remote System IP
- **remote\_color** (*str*) – (Optional) Remote Color

**Returns** Device BFD history data.

**Return type** result (dict)

**get\_bfd\_links** (*self*, *system\_ip*, *\*\*kwargs*)  
Provides BFD links for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **state** (*str*) – (Optional) State

**Returns** Device BFD links data.

**Return type** result (dict)

**get\_bfd\_sessions** (*self*, *system\_ip*, *\*\*kwargs*)  
Provides BFD sessions for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **remote\_system\_ip** (*str*) – (Optional) Remote System IP
- **remote\_color** (*str*) – (Optional) Remote Color
- **local\_color** (*str*) – (Optional) Local Color

**Returns** Device BFD sessions data.

**Return type** result (dict)

**get\_bfd\_device\_state** (*self*, *system\_ip*)  
Provides BFD state for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** Device BFD state data.

**Return type** result (dict)

**get\_bfd\_device\_state\_tloc** (*self*, *system\_ip*)  
Provides BFD state summary with TLOC for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** Device BFD state summary with TLOC data.

**Return type** result (dict)

**get\_bfd\_summary** (*self*, *system\_ip*)  
Provides BFD summary data for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** Device BFD summary data.

**Return type** result (dict)

**get\_bfd\_tloc** (*self*, *system\_ip*)  
Provides BFD TLOC for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** Device BFD TLOC data.

**Return type** result (dict)

**get\_bgp\_neighbors** (*self, system\_ip, \*\*kwargs*)  
Provides BGP neighbors for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **vpn-id** (*str*) – VPN ID
- **peer-addr** (*str*) – Peer address
- **as** (*str*) – ASN

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_bgp\_routes** (*self, system\_ip, \*\*kwargs*)  
Provides BGP routes for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **vpn-id** (*str*) – VPN ID
- **prefix** (*str*) – IP prefix
- **nexthop** (*str*) – Nexthop

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_bgp\_summary** (*self, system\_ip*)  
Provides BGP summary for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cellular\_connections** (*self, system\_ip*)  
Provides cellular connection information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cellular\_hardware** (*self, system\_ip*)  
Provides cellular hardware information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cellular\_modems** (*self, policy\_id*)  
Provides cellular modem information for device.

**Parameters** **policy\_id** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cellular\_networks** (*self, system\_ip*)

Provides cellular network information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cellular\_profiles** (*self, system\_ip*)

Provides cellular profile information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cellular\_radios** (*self, system\_ip*)

Provides cellular radio information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cellular\_sessions** (*self, system\_ip, \*\*kwargs*)

Provides cellular session information for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **interface\_name** (*str*) – Interface name values: ge0/0 - ge0/7, system, , eth0
- **primary\_dns\_ipv4** (*str*) – Primary DNS IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_cellular\_status** (*self, system\_ip*)

Provides cellular status information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_affinity\_config** (*self, system\_ip*)

Provides current control affinity config for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_affinity\_status** (*self, system\_ip*)

Provides current control affinity status for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_connections** (*self*, *system\_ip*, *\*\*kwargs*)

Provides current control connections for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **peer\_type** (*str*) – Peer type (vedge, vsmart, vmanage, vbond)
- **peer\_system\_ip** (*str*) – Peer System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_connections\_history** (*self*, *system\_ip*, *\*\*kwargs*)

Provides control connections history for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **peer\_type** (*str*) – Peer type (vedge, vsmart, vmanage, vbond)
- **peer\_system\_ip** (*str*) – Peer System IP
- **local\_color** (*str*) – Local Color

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_count** (*self*)

Provides current control count for device.

**Parameters** **None** (*None*) –

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_links** (*self*, *system\_ip*, *\*\*kwargs*)

Provides control links for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **state** (*str*) – State

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_local\_properties** (*self*, *system\_ip*)

Provides control local properties history for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_summary** (*self*, *system\_ip*)

Provides current control summary for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_valid\_devices** (*self*, *system\_ip*)

Provides control valid devices for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_valid\_vsmarts** (*self*, *system\_ip*)

Provides control valid vsmarts for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_wan\_interface** (*self*, *system\_ip*)

Provides current control wan interface for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_control\_wan\_interface\_color** (*self*, *system\_ip*)

Provides current control wan interface for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_device\_status** (*self*, *system\_ip*)

Provides status for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_device\_system\_info** (*self*, *system\_ip*)

Provides system info for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dhcp\_clients** (*self*, *system\_ip*)

Provides dhcp clients for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dhcp\_interfaces** (*self*, *system\_ip*)

Provides dhcp interfaces for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dhcp\_servers** (*self*, *system\_ip*)

Provides dhcp servers for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dot1x\_clients** (*self*, *system\_ip*)

Provides DOT1X clients for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dot1x\_interfaces** (*self*, *system\_ip*)

Provides DOT1X interfaces for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dot1x\_radius** (*self*, *system\_ip*)

Provides DOT1X RADIUS information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dpi\_applications** (*self*, *system\_ip*, **\*\*kwargs**)

Provides DPI application information for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **vpn\_id** (*str*) – VPN/VRF ID
- **application** (*str*) – Application
- **family** (*str*) – Family

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dpi\_common\_applications** (*self*)

Provides common DPI application information.

**Parameters** **None** (*None*) – None

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dpi\_device\_fields** (*self*)

Provides DPI fields for device.

**Parameters** **None** (*None*) – None

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dpi\_device\_fields\_details** (*self*)

Provides DPI detailed fields for device.

**Parameters** **None** (*None*) – None

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dpi\_flows** (*self*, *system\_ip*, *\*\*kwargs*)

Provides DPI application information for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **vpn\_id** (*str*) – VPN/VRF ID
- **source\_ip** (*str*) – Source IP
- **application** (*str*) – Application
- **family** (*str*) – Family

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dpi\_summary** (*self*, *system\_ip*)

Provides DPI summary information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_dpi\_supported\_applications** (*self*, *system\_ip*, *\*\*kwargs*)

Provides DPI supported application information for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **application** (*str*) – Application
- **family** (*str*) – Family

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_eigrp\_interfaces** (*self*, *system\_ip*)

Provides EIGRP interface for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_eigrp\_routes** (*self*, *system\_ip*)

Provides EIGRP route for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_eigrp\_topology** (*self*, *system\_ip*)

Provides EIGRP topology for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_hardware\_alarms** (*self*, *system\_ip*)

Provides hardware alarms for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_hardware\_environment** (*self*, *system\_ip*)

Provides hardware environment information for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_hardware\_inventory** (*self*, *system\_ip*)

Provides hardware inventory information for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_hardware\_status\_summary** (*self*, *system\_ip*)

Provides hardware status summary information for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_hardware\_system** (*self*, *system\_ip*)

Provides hardware system information for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_igmp\_groups** (*self*, *system\_ip*)

Provides IGMP groups information for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

- get\_igmp\_interfaces** (*self, system\_ip*)  
Provides IGMP interfaces information for device.
- Parameters** **system\_ip** (*str*) – Device System IP
- Returns** All data associated with a response.
- Return type** result (dict)
- get\_igmp\_statistics** (*self, system\_ip*)  
Provides IGMP statistics information for device.
- Parameters** **system\_ip** (*str*) – Device System IP
- Returns** All data associated with a response.
- Return type** result (dict)
- get\_igmp\_summary** (*self, system\_ip*)  
Provides IGMP summary information for device.
- Parameters** **system\_ip** (*str*) – Device System IP
- Returns** All data associated with a response.
- Return type** result (dict)
- get\_interface\_vpn** (*self, system\_ip*)  
Provides interface vpn/vrf information for device.
- Parameters** **system\_ip** (*str*) – Device System IP
- Returns** All data associated with a response.
- Return type** result (dict)
- get\_ip\_fib** (*self, system\_ip, \*\*kwargs*)  
Provides IP FIB for device.
- Parameters**
- **system\_ip** (*str*) – Device System IP
  - **vpn\_id** (*str*) – VPN ID
  - **address\_family** (*str*) – Address Family
  - **destination\_prefix** (*str*) – Destination Prefix
  - **tloc** (*str*) – TLOC
  - **color** (*str*) – TLOC color
- Returns** All data associated with a response.
- Return type** result (dict)
- get\_ip\_route\_table** (*self, system\_ip, \*\*kwargs*)  
Provides IP route table for device.
- Parameters**
- **system\_ip** (*str*) – Device System IP
  - **vpn\_id** (*str*) – VPN ID
  - **address\_family** (*str*) – Address Family
  - **destination\_prefix** (*str*) – Destination Prefix

- **source\_protocol** (*str*) – Source Protocol
- **next\_hop\_address** (*str*) – Next-Hop Address (cEdge Only)
- **next\_hop\_oif** (*str*) – Next-Hop Outgoing Interface (cEdge Only)

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ip\_nat\_translations** (*self, system\_ip*)

Provides IP NAT translations for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ip\_nat64\_translations** (*self, system\_ip*)

Provides IP NAT64 translations for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ipsec\_inbound\_connections** (*self, system\_ip, \*\*kwargs*)

Provides IPSec inbound connections for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **remote\_tloc\_address** (*str*) – Remote TLOC address
- **remote\_tloc\_color** (*str*) – Remote TLOC color
- **local\_tloc\_color** (*str*) – Local TLOC color

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ipsec\_localsa** (*self, system\_ip*)

Provides IPSec localsa for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ipsec\_outbound\_connections** (*self, system\_ip, \*\*kwargs*)

Provides IPSec outbound connections for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **remote\_tloc\_address** (*str*) – Remote TLOC address
- **remote\_tloc\_color** (*str*) – Remote TLOC color

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ipsec\_pwk\_inbound\_connections** (*self, system\_ip, \*\*kwargs*)  
Provides IPsec pairwise key inbound connections for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **remote\_tloc\_address** (*str*) – Remote TLOC address
- **remote\_tloc\_color** (*str*) – Remote TLOC color
- **local\_tloc\_color** (*str*) – Local TLOC color

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ipsec\_pwk\_localsa** (*self, system\_ip, \*\*kwargs*)  
Provides IPsec pairwise key localsa for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **remote\_tloc\_address** (*str*) – Remote TLOC address
- **remote\_tloc\_color** (*str*) – Remote TLOC color
- **local\_tloc\_color** (*str*) – Local TLOC color

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ipsec\_pwk\_outbound\_connections** (*self, system\_ip, \*\*kwargs*)  
Provides IPsec pairwise key outbound connections for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **remote\_tloc\_address** (*str*) – Remote TLOC address
- **remote\_tloc\_color** (*str*) – Remote TLOC color
- **local\_tloc\_color** (*str*) – Local TLOC color

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_multicast\_replicator** (*self, system\_ip*)  
Provides multicast replicator for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_multicast\_rpf** (*self, system\_ip*)  
Provides multicast rpf for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_multicast\_topology** (*self, system\_ip*)

Provides multicast topology for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_multicast\_tunnel** (*self, system\_ip*)

Provides multicast tunnel for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_omp\_peers** (*self, system\_ip*)

Provides OMP peers for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_omp\_routes\_received** (*self, system\_ip, \*\*kwargs*)

Provides OMP received routes for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **vpn\_id** (*str*) – VPN ID
- **prefix** (*str*) – Prefix

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_omp\_routes\_advertised** (*self, system\_ip, \*\*kwargs*)

Provides OMP advertised routes for device.

**Parameters**

- **system\_ip** (*str*) – Device System IP
- **vpn\_id** (*str*) – VPN ID
- **prefix** (*str*) – Prefix

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_omp\_summary** (*self, system\_ip*)

Provides OMP summary for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_orchestrator\_summary** (*self, system\_ip*)

Provides orchestrator (vbond) summary for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_orchestrator\_connections** (*self, system\_ip*)

Provides orchestrator (vbond) connections for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_orchestrator\_connections\_history** (*self, system\_ip*)

Provides orchestrator (vbond) connections history for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_orchestrator\_local\_properties** (*self, system\_ip*)

Provides orchestrator (vbond) local properties history for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ospf\_interfaces** (*self, system\_ip*)

Provides OSPF interfaces for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ospf\_neighbors** (*self, system\_ip*)

Provides OSPF neighbors for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ospf\_routes** (*self, system\_ip*)

Provides OSPF routes for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ospf\_database** (*self, system\_ip*)

Provides OSPF database for device.

**Parameters** `system_ip` (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ospf\_database\_summary** (*self, system\_ip*)

Provides OSPF database summary for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ospf\_process** (*self, system\_ip*)

Provides OSPF process for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_ospf\_database\_external** (*self, system\_ip*)

Provides OSPF database external for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_pim\_interfaces** (*self, system\_ip*)

Provides PIM interfaces for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_pim\_neighbors** (*self, system\_ip*)

Provides PIM neighbors for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_pim\_rp\_mapping** (*self, system\_ip*)

Provides PIM RP mapping for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_pim\_statistics** (*self, system\_ip*)

Provides PIM statistics for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_security\_information** (*self, system\_ip*)

Provides security information for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_software** (*self*, *system\_ip*)

Provides software for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_umbrella\_sig\_tunnels** (*self*, *system\_ip*)

Provides Cisco Umbrella SIG tunnels for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_users** (*self*, *system\_ip*)

Provides users for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** Device ARP table data.

**Return type** result (dict)

**get\_users\_list** (*self*, *system\_ip*)

Provides users list for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** Device ARP table data.

**Return type** result (dict)

**get\_vrrp** (*self*, *system\_ip*)

Provides VRRP entries for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_wlan\_clients** (*self*, *system\_ip*)

Provides WLAN clients for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_wlan\_interfaces** (*self*, *system\_ip*)

Provides WLAN interfaces for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_wlan\_radios** (*self*, *system\_ip*)

Provides WLAN radios for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_wlan\_radius** (*self*, *system\_ip*)

Provides WLAN RADIUS authentication for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_zscaler\_sig\_tunnels** (*self*, *system\_ip*)

Provides Cisco zScaler SIG tunnels for device.

**Parameters** **system\_ip** (*str*) – Device System IP

**Returns** All data associated with a response.

**Return type** result (dict)

## api.policy\_definitions

Cisco vManage Policy Definitions API Methods.

### Module Contents

api.policy\_definitions.definition\_types\_19\_2\_0 = ['data', 'approute', 'control', 'cflowd',

api.policy\_definitions.definition\_types\_19\_3\_0 = ['data', 'approute', 'control', 'cflowd',

api.policy\_definitions.all\_definition\_types

**class** api.policy\_definitions.PolicyDefinitions (*session*, *host*, *port=443*)

Bases: object

vManage Policy Definitions API

Responsible for DELETE, GET, POST, PUT methods against vManage Policy Definitions used in Centralized, Localized, and Security Policy.

**get\_definition\_types** (*self*)

Return the definition types for this version of vManage

Args:

**Returns** List of definition types

**Return type** result (list)

**delete\_policy\_definition** (*self*, *definition\_type*, *definition\_id*)

Delete a Policy Definition from vManage.

**Parameters**

- **definition\_type** (*str*) – The defintion type of the requested policy definition
- **definition\_id** (*str*) – The defintion ID of the requested policy definition

**Returns** All data associated with a response.

**Return type** result (dict)

**add\_policy\_definition** (*self, policy\_definition*)

Delete a Policy Definition from vManage.

**Parameters**

- **definition\_type** (*str*) – The definition type of the requested policy definition
- **definition\_id** (*str*) – The definition ID of the requested policy definition

**Returns** All data associated with a response.

**Return type** result (dict)

**update\_policy\_definition** (*self, policy\_definition, policy\_definition\_id*)

Update a Policy Definition from vManage.

**Parameters**

- **definition\_type** (*str*) – The definition type of the requested policy definition
- **definition\_id** (*str*) – The definition ID of the requested policy definition

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_policy\_definition** (*self, definition\_type, definition\_id*)

Get a Policy Definition from vManage.

**Parameters**

- **definition\_type** (*str*) – The definition type of the requested policy definition
- **definition\_id** (*str*) – The definition ID of the requested policy definition

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_policy\_definition\_list** (*self, definition\_type='all'*)

Get all Policy Definition Lists from vManage.

**Parameters** **definition\_type** (*string*) – The type of Definition List to retrieve

**Returns**

A list of all definition lists currently in vManage.

**Return type** response (dict)

**get\_policy\_definition\_dict** (*self, definition\_type, key\_name='name', remove\_key=False*)

Get all Policy Definition Lists from vManage.

**Parameters**

- **definition\_type** (*str*) – Policy definition type
- **key\_name** (*string*) – The name of the attribute to use as the dictionary key
- **remove\_key** (*boolean*) – Remove the search key from the element

**Returns** All data associated with a response.

**Return type** result (dict)

## api.policy\_lists

Cisco vManage Policy Lists API Methods.

### Module Contents

**class** `api.policy_lists.PolicyLists` (*session, host, port=443*)

Bases: `object`

vManage Policy Lists API

Responsible for DELETE, GET, POST, PUT methods against vManage Policy Lists used in Centralized, Localized, and Security Policy.

**delete\_data\_prefix\_list** (*self, listid*)

Delete a Data Prefix List from vManage.

**Parameters** `listid` (*str*) – vManaged assigned list identifier

**Returns** Results from deletion attempt.

**Return type** response (dict)

**get\_data\_prefix\_list** (*self*)

Get all Data Prefix Lists from vManage.

**Returns**

A list of all data prefix lists currently in vManage.

**Return type** response (dict)

**get\_policy\_list\_all** (*self*)

Get all Policy Lists from vManage.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (dict)

**post\_data\_prefix\_list** (*self, name, entries*)

Add a new Data Prefix List to vManage.

**Parameters**

- **name** (*str*) – name of the data prefix list
- **entries** (*list*) – a list of prefixes to add to the list

**Returns**

Results from attempting to add a new data prefix list.

**Return type** response (dict)

**put\_data\_prefix\_list** (*self, name, listid, entries*)

Update an existing Data Prefix List on vManage.

**Parameters**

- **name** (*str*) – name of the data prefix list
- **listid** (*str*) – vManaged assigned list identifier
- **entries** (*list*) – a list of prefixes to add to the list

**Returns**

**Results from attempting to update an** existing data prefix list.

**Return type** response (dict)

**delete\_policy\_list** (*self*, *listType*, *listId*)

Deletes the specified policy list type

**Parameters**

- **listType** (*str*) – Policy list type
- **listId** (*str*) – ID of the policy list

**Returns** All data associated with a response.

**Return type** result (dict)

**clear\_policy\_list\_cache** (*self*)

**get\_policy\_list\_list** (*self*, *policy\_list\_type*='all', *cache*=True)

Get a list of policy lists

**Parameters**

- **policy\_list\_type** (*str*) – Policy list type (default: all)
- **cache** (*bool*) – Use cached data

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_policy\_list\_dict** (*self*, *policy\_list\_type*='all', *key\_name*='name', *remove\_key*=False, *cache*=True)

Get a dictionary of policy lists

**Parameters**

- **policy\_list\_type** (*str*) – Policy list type
- **key\_name** (*string*) – The name of the attribute to use as the dictionary key
- **remove\_key** (*boolean*) – Remove the search key from the element
- **cache** (*boolean*) – Use cached data

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_policy\_list\_by\_name** (*self*, *policy\_list\_name*, *policy\_list\_type*='all')

Get a policy list by name

**Parameters**

- **policy\_list\_name** (*str*) – Policy list name
- **policy\_list\_type** (*str*) – Policy list type (default: all)

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_policy\_list\_by\_id** (*self*, *policy\_list\_id*, *policy\_list\_type*='all')

Get a policy list by ID

**Parameters**

- **policy\_list\_name** (*str*) – Policy list ID
- **policy\_list\_type** (*str*) – Policy list type (default: all)

**Returns** All data associated with a response.

**Return type** result (dict)

**add\_policy\_list** (*self, policy\_list*)  
Add a new Policy List to vManage.

**Parameters** **policy\_list** (*dict*) – The Policy List

**Returns**

**Results from attempting to add a new** prefix list.

**Return type** response (dict)

**update\_policy\_list** (*self, policy\_list*)  
Update an existing Policy List on vManage.

**Parameters** **policy\_list** (*dict*) – The Policy List

**Returns**

**Results from attempting to update an** existing data prefix list.

**Return type** response (dict)

## `api.policy_updates`

Cisco vManage Policy Lists API Methods.

## Module Contents

**class** `api.policy_updates.PolicyUpdates` (*session, host, port=443*)

Bases: object

vManage Policy Updates API

Responsible for POST and PUT methods against vManage Policy APIs used in Centralized, Localized, and Security Policy.

**get\_device\_ids** (*self, template\_id*)  
GET vSmart device ids from vManage.

**Parameters** **templateid** (*str*) – vManaged assigned template identifier.

**Returns** device ids list.

**Return type** response (list)

**get\_device\_inputs** (*self, template\_id, device\_ids*)  
GET vSmart device inputs from vManage.

**Parameters**

- **templateid** (*str*) – vManage assigned template identifier.
- **device\_ids** (*list*) – vManage assigned device ids for vSmarts.

**Returns** device inputs.

**Return type** response (dict)

**get\_policy\_id** (*self, policy\_type, policy\_name*)  
GET vSmart device ids from vManage.

**Parameters**

- **policy\_type** (*str*) – vManage policy type i.e. approute, data, hubandspoke etc.
- **policy\_name** (*str*) – policy name for user needs policy id.

**Returns** vManage assigned policy id.

**Return type** response (str)

**get\_policy\_definition** (*self, policy\_type, policy\_id*)  
GET vSmart device ids from vManage.

**Parameters**

- **policy\_type** (*str*) – vManage policy type i.e. approute, data, hubandspoke etc.
- **policy\_id** (*str*) – vManage assigned policy id.

**Returns** policy definition.

**Return type** response (dict)

**update\_policy\_definition** (*self, policy\_type, name, policy\_id, policy\_def, new\_color, seq\_name=None*)  
update policy definition

**Parameters**

- **policy\_type** (*str*) – vManage policy type i.e. approute, data, hubandspoke etc.
- **policy\_id** (*str*) – vManage assigned policy id.
- **policy\_def** (*dict*) – dict of data for policy updates to be done

**Returns** policy definition.

**Return type** response (dict)

## `api.security_policy`

Cisco vManage Security Policy API Methods.

### Module Contents

**class** `api.security_policy.SecurityPolicy` (*session, host, port=443*)

Bases: `object`

vManage Security Policy API

Responsible for DELETE, GET, POST, PUT methods against vManage Security Policy.

**add\_security\_policy** (*self, policy*)

Add a Security Policy from vManage.

**Parameters** **policy** – The Security Policy

**Returns** All data associated with a response.

**Return type** result (dict)

**update\_security\_policy** (*self, policy, policy\_id*)

Update a Security from vManage.

**Parameters**

- **policy** – The Security Policy
- **policy\_id** – The ID of the Security Policy to update

**Returns** All data associated with a response.

**Return type** result (dict)

**delete\_security\_policy** (*self, policyId*)

Deletes the specified security policy

**Parameters** **policyId** (*str*) – ID of the active security policy

**Returns** All data associated with a response.

**Return type** result (dict)

**delete\_security\_definition** (*self, definition, definitionId*)

Deletes the specified policy definition which include: 'zonebasedfw', 'urlfiltering', 'dnssecurity', 'intrusionprevention', 'advancedMalwareProtection' for 18.4.0 or greater and 'zonebasedfw' for

**Parameters**

- **definition** (*str*) – One of the above policy types
- **definitionId** (*str*) – ID of the policy definitions

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_security\_policy** (*self*)

Obtain a list of all configured security policies

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_security\_definition** (*self, definition*)

Obtain a list of various security definitions which include: 'zonebasedfw', 'urlfiltering', 'intrusionprevention', 'advancedMalwareProtection', 'dnssecurity'

**Parameters** **definition** (*str*) – One of the above policy types

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_security\_policy\_list** (*self*)

Get all Security Policies from vManage.

**Returns**

A list of all policy lists currently in vManage.

**Return type** response (list)

**get\_security\_policy\_dict** (*self, key\_name='policyName', remove\_key=False*)

Get all Security Policies from vManage.

**Parameters**

- **key\_name** (*str*) – The name of the attribute to use as the key

- **remove\_key** (*bool*) – Remove the key from the dict (default: False)

**Returns**

A dict of all Security Policies currently in vManage.

**Return type** response (dict)

**api.settings**

Cisco vManage Settings API Methods.

**Module Contents**

**class** `api.settings.Settings` (*session, host, port=443*)

Bases: object

vManage Settings API

Responsible for DELETE, GET, POST, PUT methods against vManage Settings.

**get\_vmanage\_org** (*self*)

Get vManage organization

Args:

**Returns** The vManage organization.

**Return type** org (str)

**set\_vmanage\_org** (*self, org*)

Set vManage organization

**Parameters** **org** (*str*) – The organization name to set.

**Returns** The result of the POST operation

**Return type** result (dict)

**get\_vmanage\_vbond** (*self*)

Get vBond

Args:

**Returns** The result of the GET operation.

**Return type** result (dict)

**set\_vmanage\_vbond** (*self, vbond, vbond\_port='12346'*)

Set vBond

**Parameters**

- **vbond** (*str*) – The vBond IP address.
- **vbond\_port** (*str*) – The vBond port.

**Returns** The result of the POST operation.

**Return type** result (dict)

**get\_vmanage\_ca\_type** (*self*)

Get vManage CA type

Args:

**Returns** The CA type.

**Return type** certificateSigning (str)

**set\_vmanage\_ca\_type** (*self*, *ca\_type*)

Set vManage CA type

**Parameters** **ca\_type** (*str*) – The CA type.

**Returns** The result of the POST operation.

**Return type** result (dict)

**set\_vmanage\_root\_cert** (*self*, *cert*, *timeout=20*)

Set vManage root certificate

**Parameters**

- **cert** (*str*) – The root certificate.
- **timeout** (*int*) – Timeout in seconds.

Returns:

**get\_vmanage\_banner** (*self*)

Get vManage Banner

Args:

**Returns** The banner for vmanage.

**Return type** bannerDetail (str)

## api.utilities

Cisco vManage Utilities API Methods.

### Module Contents

**class** api.utilities.**Utilities** (*session*, *host*, *port=443*)

Bases: object

Access to Various vManage Utilitiesinstance.

vManage has several utilities that are needed for correct execution of applications against the API. For example, this includes waiting for an action to complete before moving onto the next task.

**get\_active\_count** (*self*)

Provides number of active tasks on vManage.

**Returns** All data associated with a response.

**Return type** result (dict)

**get\_vmanage\_version** (*self*)

**waitfor\_action\_completion** (*self*, *action\_id*)

**upload\_file** (*self*, *input\_file*)

Upload a file to vManage.

**Parameters** **input\_file** (*str*) – The name of the file to upload.

**Returns** The status of the file upload.

**Return type** upload\_status (str)

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api.name = vmanage.api
```



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