

# Aruba REST API Guide for ArubaOS-Switch 16.05



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This guide provides information on how to use RestAPI and JSON schema.

## Applicable products

This guide applies to these products:

Aruba 2530 Switch Series (J9772A, J9773A, J9774A, J9775A, J9776A, J9777A, J9778A, J9779A, J9780A, J9781A, J9782A, J9783A, J9853A, J9854A, J9855A, J9856A, JL070A)

Aruba 2540 Switch Series (JL354A, JL355A, JL356A, JL357A)

Aruba 2920 Switch Series (J9726A, J9727A, J9728A, J9729A, J9836A)

Aruba 2930F Switch Series (JL253A, JL254A, JL255A, JL256A, JL258A, JL259A, JL260A, JL261A, JL262A, JL263A, JL264A, JL557A, JL558A, JL559A)

Aruba 2930M Switch Series (JL319A, JL320A, JL321A, JL322A, JL323A, JL324A)

Aruba 3810 Switch Series (JL071A, JL072A, JL073A, JL074A, JL075A, JL076A)

Aruba 5400R zl2 Switch Series (J9821A, J9822A, J9850A, J9851A, JL001A, JL002A, JL003A, JL095A)

## Overview REST

Representational State Transfer (REST) is a software architecture style consisting of guidelines and best practices for creating scalable web services. RESTful systems typically communicate over HTTP using the same verbs (that is, GET, POST, PUT, DELETE) used by web browsers.

The REST server listens for requests from clients on port 80 (HTTP) and port 443 (HTTPS). The REST service context is "/rest" followed by REST version. For example, `http://192.168.1.1/rest/v1.0`. REST requests also maybe sent on the HTTPS port (443).



NOTE

- The REST interface is enabled by default.
- Web management or web management SSL must be enabled. If web management is disabled, requests will not be processed, irrespective of the REST interface status.
- REST requests may also be sent to a switch through an OOBM port.
- REST API requests to stacked switches should use schema version v3 (available since 16.04) or above.

### More information

- JSON Schema and REST API documentation for the most recent version of the software:
  - [JSON Schema X.16.01.xxxx](#)
  - [JSON Schema X.16.02.xxxx](#)
  - [JSON Schema X.16.03.xxxx](#)
  - [JSON Schema X.16.04.xxxx](#)
  - [JSON Schema X.16.05.xxxx](#)

## Commands

### rest-interface

#### Syntax

```
rest-interface
```

```
no rest-interface
```

#### Description

Enables the REST interface.

The `no` form of this command disables the REST interface.



---

Web management or Web management SSL must be enabled to process the REST requests. If Web management is disabled, the REST requests will not be processed even though the REST interface is enabled.

---

### Command context

Required context: `config`

### Examples

Enable the REST interface.

```
switch(config)# rest-interface
switch(config)# show rest-interface

REST Interface - Server Configuration

REST Interface           : Enabled
REST Operational Status  : Up
REST Session Idle Timeout : 600 seconds
HTTP Access              : Enabled
HTTPS Access             : Disabled
```

Disable the REST interface.

```
switch(config)# no rest-interface
switch(config)# show rest-interface

REST Interface - Server Configuration
REST Interface           : Disabled
REST Operational Status  : Down
HTTP Access              : Enabled
HTTPS Access             : Disabled
```

## rest-interface session-idle-timeout

### Syntax

```
rest-interface session-idle-timeout <SECONDS>
```

```
no rest-interface session-idle-timeout
```

### Description

Configure session-idle-timeout for the REST interface sessions. The configurable value range is from 120 to 7200 seconds with the default value at 600 seconds.

The `no` version of the command resets the session-idle-timeout to the default value.

### Command context

Required context: `config`

## debug rest-interface

### Syntax

```
debug rest-interface
```



Enables debug logs for the rest-interface.

## debug rest-interface

```
HP-2920-48G(config)# debug rest-interface
0000:00:23:14.01 rest tHttpd:Received REST POST request
0000:00:23:14.08 rest tHttpd:(http_state:)http_process_post END
0000:00:23:14.15 rest tHttpd:REST request redirected to REST server
0000:00:23:14.22 rest tHttpd:Send REST request message to REST control task
0000:00:23:14.30 rest tHttpd:tHttpd is unblocked with necessary cleanup
0000:00:23:14.38 rest mrest_ctrl:Request for parse header
0000:00:23:14.44 rest mrest_ctrl:Request for parse header after method POST
```

## Show commands

### show rest interface

#### Syntax

```
show rest interface
```

#### Description

The REST operational status will be shown as Up only when the REST interface is enabled and either Web management or Web management SSL is enabled. HTTP access is enabled when Web management is enabled. HTTPS access is enabled when Web management SSL is enabled.

#### Command context

Required context: `operator`

#### Example

```
switch# show rest-interface
REST Interface - Server Configuration
  REST Interface           : Enabled
  REST Operational Status  : Up
  REST Session Idle Timeout : 600 seconds
  HTTP Access              : Enabled
  HTTPS Access             : Disabled
```

## Restrictions

- Rest interface is not supported in FIPS.
- Rest Interface is not supported on ArubaOS 3800 stack switches.

## Basic RestAPI Workflows

### Use case — login-sessions

If a user is configured on the switch, login request must be posted to the switch for authentication. If user validation is successful, the switch returns a session id as a cookie that will be used for further requests.



---

Users are able to create a maximum of five REST sessions simultaneously.

---

```
WorkStation# curl --noproxy 10.100.167.104 -X POST
http://10.100.167.104:80/rest/v1/login-sessions -d '{"userName":"test", "password":"test"}'
```

Response from the switch when user validation is successful:

```
{
  "uri": "/rest/v1/login-sessions", "cookie":
  "sessionId=09CG1bRuT5hkCPzI97mmDjpn4uLtsmgkBsAaWUr9h7GxlkbsiASak1PEyj7Ov3n"
}
```

## Use case — authentication failure

The switch will return an error if authentication fails:

```
WorkStation# curl --noproxy 10.100.167.104 -X POST
http://10.100.167.104:80/rest/v1/login-sessions -d '{"userName":"test", "password":"test"}'
```

Switch response upon failure:

```
{
  "message": "Authentication failed."
}
```



- An operator may only use the **GET** method. A manager is supported for all methods.
- Posting a login request is not required and requests may be sent without a cookie if a user name is not configured.

### Other failure causes

1. The wrong username/password is sent to create login sessions.
  2. The user is configured and REST requests are sent without session id.
- 

## Use case — creating a VLAN

Creating VLAN using REST:

```
WorkStation# curl --noproxy 10.100.167.104 --cookie
"sessionId=09CG1bRuT5hkCPzI97mmDjpn4uLtsmgkBsAaWUr9h7GxlkbsiASak1PEyj7Ov3n" -X POST
http://10.100.167.104:80/rest/v1/vlans -d '{"vlan_id":5, "name":"VLAN5"}'
```

Response from the Switch:

```
{
  "uri": "/rest/v1/vlans/5",
  "vlan_id": 5,
  "name": "VLAN5",
  "status": "VS_PORT_BASED",
  "type": "VT_STATIC",
  "is_voice_enabled": false,
}
```

```
"is_jumbo_enabled": false,
"is_dsnoop_enabled": false
}
```

## Use case — fetching the VLAN

Fetching the VLAN details using REST:

```
WorkStation# curl --noproxy 10.100.167.104 --cookie
"sessionId=09CG1bRuT5hkCPzI97mmDjpn4uLtsmgkBsAaWUr9h7GxlkbsiASak1PEyj7Ov3n" -X GET
http://10.100.167.104:80/rest/v1/vlans
```

Response from the Switch:

```
{
  "collection_result": {
    "total_elements_count": 2,
    "filtered_elements_count": 2
  },
  "vlan_element": [
    {
      "uri": "/rest/v1/vlans/1",
      "vlan_id": 1,
      "name": "DEFAULT_VLAN",
      "status": "VS_PORT_BASED",
      "type": "VT_STATIC",
      "is_voice_enabled": false,
      "is_jumbo_enabled": false,
      "is_dsnoop_enabled": false
    },
    {
      "uri": "/rest/v1/vlans/5",
      "vlan_id": 5,
      "name": "VLAN5",
      "status": "VS_PORT_BASED",
      "type": "VT_STATIC",
      "is_voice_enabled": false,
      "is_jumbo_enabled": false,
      "is_dsnoop_enabled": false
    }
  ]
}
```

## Use case — logout of session

Logout of REST session.

```
WorkStation# curl --noproxy 10.100.167.104 --cookie
"sessionId=09CG1bRuT5hkCPzI97mmDjpn4uLtsmgkBsAaWUr9h7GxlkbsiASak1PEyj7Ov3n" -X
DELETE http://10.100.167.104:80/rest/v1/login-sessions
```

The switch will respond with a message similar to: 204 No Content.

```
[root@UbuntuServer5224 ~]# curl --noproxy 192.168.1.1 -v --cookie
"sessionId=8XU2msUzBJbXYClpFyVmaageB4iiRE6C94QsYIIfd3xiHelPjgUraYOx5JjWIUq" -X
DELETE http://192.168.1.1:80/rest/v1/login-sessions
```

```

* About to connect() to 192.168.1.1 port 80 (#0)
*   Trying 192.168.1.1... connected
> DELETE /rest/v1/login-sessions HTTP/1.1
> User-Agent: curl/7.22.0 (x86_64-pc-linux-gnu) libcurl/7.22.0 OpenSSL/1.0.1 zlib/1.2.3.4 libidn/1.23 librtmp/2.3
> Host: 192.168.1.1
> Accept: */*
> Cookie: sessionId=8XU2msUzBJbXYClpFyVmaageB4iiRE6C94QsvYIfd3xiHelPjgUraYOx5JjWIUq
>
< HTTP/1.1 204 No Content
< Server: eHTTP v2.0
< Connection: keep-alive
< RequestId:
<
* Connection #0 to host 192.168.1.1 left intact
* Closing connection #0
[root@UbuntuServer5224 ~]#

```

## Use case - clearing login sessions

### Clearing login sessions

There are two options available to clear login sessions from a switch:

- Enable or Disable the REST interface.
- Reboot the switch.

Clearing a specific session by ID requires the use of the DELETE method of [Service RestLoginSessions](#).

### Use case — clearing login sessions

Clearing login sessions.

```

WorkStation# curl --noproxy 192.168.1.1 -v -k --cookie
"cookie":"<<Session id>>" -X DELETE http://192.168.1.1:80/rest/v1/login-sessions

```

```

[root@UbuntuServer54185 ~]# curl --noproxy 192.168.1.1 -v -k --cookie
"cookie":"sessionId=ww6Nahl7D7dCw4egR5Nnu2d76qs93Y98g3CCwECmEAX8XkVNQGfV0sYDY4thzyJ"
-X DELETE http://192.168.1.1:80/rest/v1/login-sessions
* About to connect() to 192.168.1.1 port 80 (#0)
*   Trying 192.168.1.1... connected
> DELETE /rest/v1/login-sessions HTTP/1.1
> User-Agent: curl/7.22.0 (x86_64-pc-linux-gnu) libcurl/7.22.0 OpenSSL/1.0.1 zlib/1.2.3.4
libidn/1.23 librtmp/2.3
> Host: 192.168.1.1
> Accept: */*
> Cookie: cookie:sessionId=ww6Nahl7D7dCw4egR5Nnu2d76qs93Y98g3CCwECmEAX8XkVNQGfV0sYDY4thzyJ
>
< HTTP/1.1 204 No Content
< Server: eHTTP v2.0
< Connection: keep-alive
< RequestId:
<
* Connection #0 to host 192.168.1.1 left intact
* Closing connection #0
[root@UbuntuServer54185 ~]#
[root@UbuntuServer54185 ~]#

```

# Responses and HTTP status codes returned by RestAPI

## GET Response and HTTP status codes returned by the RestAPI

**Table 1:** *GET Response and HTTP status codes*

Response Code	Description
200 OK	Request is successful.
400 Bad request	Request is invalid due to incorrect parameters in the request.
404 Not Found	Request has failed due to non-existent resource.
500 Internal Server Error	Request has failed due to an error in the switch.

## POST responses and HTTP status codes returned by RestAPI

**Table 2:** *POST responses and HTTP status codes*

Response Code	Description
200 OK	Command URI is successful.
201 Created	Command URI is created.
202 Accepted	Command URI is accepted.
204 No Content	No content is returned for command URI.
400 Bad Request	Request has failed due to incorrect parameters in the request.
404 Not Found	Request is failed due to non-existent resource.
405 Method Not Allowed	Request not supported on a resource.
500 Internal Server Error	Request is failed due to an error in the switch.

## PUT responses and HTTP status codes returned by RestAPI

**Table 3:** *PUT responses and HTTP status codes*

Response Code	Description
200 OK	Resource is successful.
400 Bad Request	Failed due to incorrect parameters in the request.
404 Not Found	Failed due to non-existent resource.

*Table Continued*

Response Code	Description
405 Method Not Allowed	Not supported on a resource.
500 Internal Server Error	Failed due to an error in the switch.

## DELETE responses and HTTP status codes returned by RestAPI

**Table 4:** *DELETE responses and HTTP status codes*

Response code	Description
204 No Content	Delete on a resource is successful.
400 Bad Request	Invalid DELETE request [ some incorrect parameters in the request ].
404 Not Found	Request has failed due to non-existent resource.
405 Method Not Allowed	Not supported on a resource.
500 Internal Server Error	Request is failed due to an error in the switch.

## Service ACL

HTTP Method	Resource	Request	Response	Description
GET	.../acIs			
		N/A	CommonElementList	Returns the list of ACL elements matching the given query.
POST	.../acIs			
		Acl	Acl	Adds the given ACL to the model.
GET	.../acIs/{Acl.id}			
		N/A	Acl	Returns the ACL matching the given ID.
DELETE	.../acIs/{Acl.id}			
		N/A	N/A	Deletes the ACL with the given ID from the model.
GET	.../acIs/{Acl.id}/rules			
		N/A	CommonElementList	Returns the list of ACL Rule elements matching the given query.
POST	.../acIs/{AclRule.acl_id}/rules			
		AclRule	AclRule	Adds the given ACL Rule to the model.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../acls/{AclRule.acl_id}/rules/{AclRule.sequence_no}	N/A	AclRule	Returns the ACL Rule matching the given ID.
PUT	.../acls/{AclRule.acl_id}/rules/{AclRule.sequence_no}	AclRule	AclRule	Updates the given ACL Rule in the model.
DELETE	.../acls/{AclRule.acl_id}/rules/{AclRule.sequence_no}	N/A	N/A	Deletes the ACL Rule with the given ID from the model.
POST	.../acls/{ResequenceCommand.acl_id}/rules/resequence	ResequenceCommand	Void	Triggers a resequence of ACL Rule elements based on the given parameters.
GET	.../acls/rules	N/A	CommonElementList	Returns the list of ACL Rule elements for all ACLs.
GET	.../acls/deny_fragmented_tcp_header			Returns the ACL deny-fragmented-tcp-header
PUT	.../acls/deny_fragmented_tcp_header			Update deny-fragmented-tcp-header.



## Service AllowUnsupportedTransceiver

HTTP Method	Resource	Request	Response	Description
GET	.../allow_unsupported_transceiver			
		N/A	N/A	Returns AllowUnsupportedTransceiver system attribute.
PUT	.../allow_unsupported_transceiver			
		N/A	N/A	Updates AllowUnsupportedTransceiver system attribute.

## Service Banner

HTTP Method	Resource	Request	Response	Description
GET	.../banner			
		N/A	Banner	Returns Banner system attributes.
PUT	.../banner			
		Banner	Banner	Updates Banner system attributes.

## Service Cdp

HTTP Method	Resource	Request	Response	Description
GET	.../cdp			
		N/A	Cdp	Returns the global CDP configuration data.
GET	.../cdp			
		Cdp	Cdp	Updates the global CDP configuration data.

## Service DebugLog

HTTP Method	Resource	Request	Response	Description
POST	.../debug-log/filter			
		DebugLogFilterCommand	DebugLogStats	Triggers the filtering of debug logs based on the given parameters.
GET	.../debug-log/status			
		N/A	DebugLogStats	Returns the status of the debug log filters.



Added attributes “debug\_destination\_to\_enable” and “debug\_destination\_to\_disable” in DebugLogFilterCommand and added attributes “debug\_destination” in DebugLogStats.

## Service DeviceManagementUser

HTTP Method	Resource	Request	Response	Description
GET	.../management-user			
		N/A	CommonElementList	Returns the list of Management User elements matching the given query.
POST	.../management-user			
		DeviceManagementUser	DeviceManagementUser	Adds the given Management User to the model.
GET	.../management-user/{DeviceManagementUser.type}			
		N/A	DeviceManagementUser	Returns the Management User matching the given ID.
PUT	.../management-user/{DeviceManagementUser.type}			
		DeviceManagementUser	DeviceManagementUser	Updates the given Management User in the model.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
DELETE	.../management-user/{DeviceManagementUser.type}	N/A	N/A	Deletes the Management User with the given ID from the model.

## Service Dns

HTTP Method	Resource	Request	Response	Description
GET	.../dns	N/A	Dns	Returns the host system attributes.
PUT	.../dns	Dns	Dns	Updates the host system attributes.

## Service Dot1xSupplicantPort

HTTP Method	Resource	Request	Response	Description
GET	.../dot1x/supplicant	N/A	CommonElementList	Returns the list of 802.1X Supplicant Port elements matching the given query.
GET	.../dot1x/supplicant/{Dot1xSupplicantPort.port_id}	N/A	Dot1xSupplicantPort	Returns the 802.1X Supplicant Port matching the given ID.
GET	.../dot1x/supplicant/{Dot1xSupplicantPort.port_id}		Dot1xSupplicantPort	Returns the 802.1X Supplicant Port matching the given ID.
PUT	.../dot1x/supplicant/{Dot1xSupplicantPort.port_id}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		Dot1xSupplicantPort	Dot1xSupplicantPort	Updates the given 802.1X Supplicant Port in the model.
POST	.../dot1x/supplicant/{Dot1xSupplicantPort.port_id}/clearstats	N/A	N/A	Clear statistics of dot1x supplicant based on port id.
POST	.../dot1x/supplicant/{Dot1xSupplicantPort.port_id}/initialize	N/A	N/A	Initialize of dot1x supplicant based on port id.
GET	.../dot1x/supplicant/{Dot1xSupplicantPort.port_id}/stats	N/A	Dot1xSupplicantPort	Returns the 802.1X Supplicant statistics matching the given port.
GET	.../dot1x/supplicant/stats	N/A	CommonElementList	Returns the list of 802.1X Supplicant statistics elements matching the given query.

## Service Fastboot

HTTP Method	Resource	Request	Response	Description
GET	.../fastboot			
		N/A	Fastboot	Returns Fastboot system attribute.
PUT	.../fastboot			
		Fastboot	Fastboot	Updates Fastboot system attribute.

## Service FileTransfer

HTTP Method	Resource	Request	Response	Description
POST	.../file-transfer			
		FileTransferCommand	Void	Triggers a file transfer based on the given parameters.



Added "show\_tech\_option" and removed parameters "reboot\_device\_after\_download" and "force\_firmware\_install" in FileTransferCommand. Modified the enum "FileTransferType".

## Service Lldp

HTTP Method	Resource	Request	Response	Description
GET	.../lldp			
		N/A	Lldp	Get LLDP Global Status.
PUT	.../lldp			
		Lldp	Lldp	Enable/Disable LLDP Globally.
GET	.../lldp/auto_provision/radio_ports			
		N/A	LldpAutoProvisionRadioPorts	Retrieve LLDP radio port automatic provisioning.
GET	.../lldp/local-port/{LldpLocalPort.port_id}			
		N/A	LldpLocalPort	Get LLDP Local Port Configurations.
PUT	.../lldp/local-port/{LldpLocalPort.port_id}			
		LldpAutoProvisionRadioPorts	LldpAutoProvisionRadioPorts	Set LLDP radio port automatic provisioning.
GET	.../lldp/local-port			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	CommonElementList	Retrieve the complete list of LLDP Local Port elements including OOBM port.
GET	.../lldp/local-port/{LldpLocalPort.port_id}			
		N/A	LldpLocalPort	Get LLDP Local Port Configurations
PUT	.../lldp/local-port/{LldpLocalPort.port_			
		LldpLocalPort	LldpLocalPort	Set LLDP Local Port Configurations.
GET	.../lldp/local-port/oobm			
		N/A	LldpOobmPort	Retrieve LLDP OOBM Port Configurations
PUT	.../lldp/local-port/oobm			
		LldpOobmPort	LldpOobmPort	Set LLDP OOBM Port Configurations
GET	.../lldp/local_device/info			
		N/A	LldpLocalDevice	Retrieve the LLDP Local Device Information
GET	.../lldp/local_device/ports			
		N/A	CommonElementList	Retrieve the LLDP Local Information of all ports including OOBM.
GET	.../lldp/local_device/ports/{LldpLocalDevicePort.port_name}			
		N/A	LldpLocalDevicePort	Retrieve the LLDP Local Information per port.
GET	.../lldp/local_device/ports/oobm			
		N/A	LldpLocalDevicePort	Retrieve the Local OOBM port Information.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../lldp/remote-device	N/A	CommonElementList	Retrieve the LLDP Remote Information including devices connected to OOBM.
GET	.../lldp/remote-device/{LldpRemoteDevice.local_port}	N/A	LldpRemoteDevice	Retrieve the LLDP Remote Information per
GET	.../lldp/remote-device/oobm	N/A	LldpOobmRemoteDevice	Retrieve the OOBM Remote Information.
GET	.../lldp/stats/device	N/A	LldpDeviceStats	Retrieve the LLDP Neighbour Stats.
GET	.../lldp/stats/ports	N/A	CommonElementList	Retrieve the LLDP Port Stats for all ports including OOBM.
GET	.../lldp/stats/ports/{LldpPortStats.port_name}	N/A	LldpPortStats	Retrieve the LLDP per Port Stats.
GET	.../lldp/stats/ports/oobm	N/A	LldpPortStats	Retrieve the LLDP OOBM Stats.

## Service IpAddressSubnet

HTTP Method	Resource	Request	Response	Description
GET	.../ipaddresses	N/A	CommonElementList	Returns the list of IP Address Subnets elements matching the given query.
GET	.../vlans/{Vlan.vlan_id}/ipaddresses	N/A	CommonElementList	Returns IP Address Subnets for the specified VLAN.
POST	.../vlans/{IpAddressSubnet.vlan_id}/ipaddresses	IpAddressSubnet	IpAddressSubnet	Adds the given IP Address Subnet in the model.
DELETE	.../vlans/{Vlan.vlan_id}/ipaddresses	N/A	N/A	Deletes IP Address Subnets for the specified VLAN.

## Service IpIcmp

HTTP Method	Resource	Request	Response	Description
GET	.../ip_icmp	N/A	IpIcmp	Returns IP ICMP attributes.
PUT	.../ip_icmp	IpIcmp	IpIcmp	Updates IP ICMP attributes.



## Service IpRoute

HTTP Method	Resource	Request	Response	Description
GET	.../ip-route			
		N/A	CommonElementList	Returns the list of IP Route elements matching the given query.
POST	.../ip-route			
		IpRoute	IpRoute	Adds the given IP Route in the model.
GET	.../ip-route/{IpRoute.id}			
		N/A	IpRoute	Returns the IP Route matching the given ID.
DELETE	.../ip-route/{IpRoute.id}			
		N/A	N/A	Deletes the IP Route with the given ID from the model.
GET	.../ip-route/settings			
		N/A	IpRouteSettings	Returns the global IP Route settings.
PUT	.../ip-route/settings			
		IpRouteSettings	IpRouteSettings	Updates the global IP Route settings.

## Service IpSourceInterface

HTTP Method	Resource	Request	Response	Description
GET	.../ip_source_interface			
		N/A	IpSourceInterface	Returns all IP source-interfaces.
GET	.../ip_source_interface/{IpSourceInterface.protocol}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	IpSourceInterface	Returns IP source-interface based on the protocol.
PUT	.../ip_source_interface/{IpSourceInterface.protocol}	IpSourceInterface	IpSourceInterface	Update IP source-interface record for a protocol. <ul style="list-style-type: none"> <li>If both IP address &amp; VLAN ID are null; configuration will be removed based on protocol.</li> <li>If both valid IP address &amp; VLAN ID are given in REST request, IP address will have preference over VLAN ID.</li> </ul>

## Service Ping

HTTP Method	Resource	Request	Response	Description
POST	.../ping			
		PingCommand	PingCommandResult	Triggers a ping based on the given parameters.

## Service Port

### Service Port

HTTP Method	Resource	Request	Response	Description
GET	.../ports			
		N/A	CommonElementList	Returns the list of Port elements matching the given query.
GET	.../ports/{Port.id}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	Port	Returns the Port matching the given ID.
PUT	.../ports/{Port.id}	Port	Port	Updates the given Port in the model.

## Service Qos

HTTP Method	Resource	Request	Response	Description
GET	.../qos/dscp-map	CommonCollectionQuery	CommonElementList	Returns the list of QoS DSCP Map elements matching the given query.
GET	.../qos/dscp-map/{QosDscpMap.dscp_value}	QosDscpMap	QosDscpMap	Returns the QoS DSCP Map matching the given ID.
PUT	.../qos/dscp-map/{QosDscpMap.dscp_value}	QosDscpMap	QosDscpMap	Updates the given QoS DSCP Map in the model.
GET	.../qos/policies	CommonCollectionQuery	CommonElementList	Returns the list of QoS Policy elements matching the given query.
POST	.../qos/policies			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		QosPolicy	QosPolicy	Adds the given QoS Policy to the model.
GET	.../qos/policies/{QosPolicy.id}	QosPolicy	QosPolicy	Returns the QoS Policy matching the given ID.
DELETE	.../qos/policies/{QosPolicy.id}	N/A	N/A	Deletes the QoS Policy with the given ID from the model.
GET	.../qos/policies/{QosPolicy.id}/policy-actions	QosPolicy	CommonElementList	Returns the list of QoS Policy Action elements matching the given query.
POST	.../qos/policies/{QosPolicyAction.policy_id}/policy-actions	QosPolicyAction	QosPolicyAction	Adds the given QoS Policy Action to the model.
GET	.../qos/policies/{QosPolicyAction.policy_id}/policy-actions/{QosPolicyAction.sequence_no}	QosPolicyAction	QosPolicyAction	Returns the QoS Policy Action matching the given ID.
PUT	.../qos/policies/{QosPolicyAction.policy_id}/policy-actions/{QosPolicyAction.sequence_no}	QosPolicyAction	QosPolicyAction	Updates the given QoS Policy Action in the model.
DELETE	.../qos/policies/{QosPolicyAction.policy_id}/policy-actions/{QosPolicyAction.sequence_no}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	N/A	Deletes the QoS Policy Action with the given ID from the model.
POST	.../qos/policies/{ResequenceCommand.policy_id}/policy-actions/resequence	ResequenceCommand	Void	Triggers a resequence of QoS Policy Action elements based on the given parameters.
GET	.../qos/traffic-classes	CommonCollectionQuery	CommonElementList	Returns the list of QoS Traffic Class elements matching the given query.
POST	.../qos/traffic-classes	QosTrafficClass	QosTrafficClass	Adds the given QoS Traffic Class to the model.
GET	.../qos/traffic-classes/{QosTrafficClass.id}	QosTrafficClass	QosTrafficClass	Returns the QoS Traffic Class matching the given ID.
DELETE	.../qos/traffic-classes/{QosTrafficClass.id}	N/A	N/A	Deletes the QoS Traffic Class with the given ID from the model.
GET	.../qos/traffic-classes/{QosTrafficClass.id}/matches			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		QosTrafficClass	CommonElementList	Returns the list of QoS Class Match elements matching the given query.
POST	.../qos/traffic-classes/{QosClassMatch.traffic_class_id}/matches	QosClassMatch	QosClassMatch	Adds the given QoS Class Match to the model.
GET	.../qos/traffic-classes/{QosClassMatch.traffic_class_id}/matches/{QosClassMatch.sequence_no}	QosClassMatch	QosClassMatch	Returns the QoS Class Match matching the given ID.
PUT	.../qos/traffic-classes/{QosClassMatch.traffic_class_id}/matches/{QosClassMatch.sequence_no}	QosClassMatch	QosClassMatch	Updates the given QoS Class Match in the model.
DELETE	.../qos/traffic-classes/{QosClassMatch.traffic_class_id}/matches/{QosClassMatch.sequence_no}	N/A	N/A	Deletes the QoS Class Match with the given ID from the model.
POST	.../qos/traffic_classes/{ResequenceCommand.traffic_class_id}/matches/resequence	ResequenceCommand	Void	Triggers a resequence of QoS Class Match elements based on the given parameters.

## Service RadiusProfile

HTTP Method	Resource	Request	Response	Description
GET	.../radius_profile			
		N/A	RadiusProfile	Returns the RADIUS profile information.
PUT	.../radius_profile			
		RadiusProfile	RadiusProfile	Updates the given RADIUS profile in the model.



Added parameters “dead\_time”, “key”, “dyn\_autz\_port”, “tracking\_uname”, and “is\_tracking\_enabled” in RadiusProfile.

Removed parameter dot1x\_authentication\_method from RadiusProfile.

## Service RadiusServer

HTTP Method	Resource	Request	Response	Description
GET	.../radius_servers			
		N/A	CommonElementList	Returns the RADIUS server information.
POST	.../radius_servers			
		RadiusServer	RadiusServer	Create the given RADIUS server in the model.
GET	.../radius_servers/{RadiusServer.radius_server_id}			
		N/A	RadiusServer	Returns the given RADIUS server information.
PUT	.../radius_servers/{RadiusServer.radius_server_id}			
		RadiusServer	RadiusServer	Updates the given RADIUS server in the model.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
DELETE	.../radius_servers/ {RadiusServer.radius_server_id}	N/A	N/A	Deletes the given radius server from the model.



Added Parameters “is\_dyn\_authorization\_enabled”, “time\_window\_type”, “time\_window”, and “is\_oobm” included in RadiusServer.

## Service RestLoginSessions

HTTP Method	Resource	Request	Response	Description
POST	.../rest/v1/login-sessions	RestLoginSessions	RestLoginSessionsResult	Adds the given Management User to the model.
DELETE	.../rest/v1/login-sessions	N/A	N/A	Deletes the Management User with the given ID from the model

## Service RestSessionIdleTimeout

HTTP Method	Resource	Request	Response	Description
GET	.../rest/v1/session-idle-timeout	N/A	RestSessionIdleTimeout	Returns the Management User matching the given ID.
PUT	.../rest/v1/session-idle-timeout/{RestSessionIdleTimeout.type}	RestSessionIdleTimeout	RestSessionIdleTimeout	Updates the given Management User in the model.



## Service SmartratePort

HTTP Method	Resource	Request	Response	Description
GET	.../smartrate/ports			
		N/A	CommonElementList	Returns the list of Smartrate Port elements matching the given query.
GET	.../smartrate/ports/{SmartratePort.port_id}			
		N/A	SmartratePort	Returns the Smartrate Port info and stats matching the given ID.

## Service SNTP

HTTP Method	Resource	Request	Response	Description
GET	.../system/sntp			
		N/A	Sntp	Returns SNTP system attributes.
PUT	.../system/sntp			
		Sntp	Sntp	Updates SNTP system attributes.

## Service SntpServerDetails

HTTP Method	Resource	Request	Response	Description
GET	.../system/sntp_server			
		N/A	CommonElementList	Returns SNTP server system attributes.
POST	.../system/sntp_server			
		SntpServerDetails	SntpServerDetails	Add SNTP server system attributes.
GET	.../system/sntp_server/{SntpServerDetails.sntp_server_priority}-{SntpServerDetails.sntp_server_address}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	SntpServerDetails	Returns SNTP server system attributes.
DELETE	.../system/sntp_server/{SntpServerDetails.sntp_server_priority}- {SntpServerDetails.sntp_server_address}	N/A	N/A	Delete SNTP server system attributes.

## Service System

HTTP Method	Resource	Request	Response	Description
GET	.../system/status/global_info			
		N/A	StackSystemInfoStatsGlobal	Returns the global system information for stacked switches.
GET	.../system/status/members			
		N/A	CommonElementList	Returns the list of member specific system information for stacked switches.
GET	.../system/status/members/ {MemberSystemStatusInfo.member_id}			
		N/A	MemberSystemStatusInfo	Returns the member specific system information for stacked switches.
POST	.../system/reboot/commander			Triggers a commander boot on stacked device
POST	.../system/reboot/member/{MemberSystemStatusInfo.member_id}			Triggers a member boot on stacked switch with given member_id
POST	.../system/reboot/standby			Triggers a standby boot on stacked device

*Table Continued*

HTTP Method	Resource	Request	Response	Description
POST	.../system/time/set-manually	SetSystemDateTimeCommand	N/A	Sets the system date/time based on the given parameters.
GET	.../system/time	N/A	SystemTime	Returns the host system time configuration.
PUT	.../system/time	SystemTime	SystemTime	Updates the host system time configuration.



Attribute "operation\_mode" changed to "device\_operation\_mode" in SystemAttributes.json.

## Service TftpClient

HTTP Method	Resource	Request	Response	Description
GET	.../tftp/client	N/A	TftpClient	Returns TFTP Client system attributes.
PUT	.../tftp/client	TftpClient	TftpClient	Updates TFTP Client system attributes.

## Service TraceRoute

HTTP Method	Resource	Request	Response	Description
POST	.../trace-route	TraceRouteCommand	TraceRouteCommandResult	Triggers a trace route based on the given parameters.

## Service Vlan

HTTP Method	Resource	Request	Response	Description
GET	.../vlans			
		N/A	CommonElementList	Returns the list of VLAN elements matching the given query.
POST	.../vlans			
		Vlan	Vlan	Adds the given VLAN to the model.
GET	.../vlans/{Vlan.vlan_id}			
		N/A	Vlan	Returns the VLAN matching the given ID.
PUT	.../vlans/{Vlan.vlan_id}			
		Vlan	Vlan	Updates the given VLAN in the model.
DELETE	.../vlans/{Vlan.vlan_id}			
		N/A	N/A	Deletes the VLAN with the given ID from the model.



Removed attributes “sql.not\_null”: true, “sql.unique”: true from parameter “name” of Vlan schema.

## Service VlanPort

HTTP Method	Resource	Request	Response	Description
GET	.../vlans-ports			
		N/A	CommonElementList	Returns the list of VLAN-Port elements matching the given query.
POST	.../vlans-ports			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		VlanPort	VlanPort	Adds the given VLAN-Port using the specified mode.
GET	.../vlans-ports/{VlanPort.vlan_id}-{VlanPort.port_id}	N/A	VlanPort	Returns the VLAN-Port matching the given ID.
PUT	.../vlans-ports/{VlanPort.vlan_id}-{VlanPort.port_id}	VlanPort	VlanPort	Updates the given VLAN-Port using the specified mode.
DELETE	.../vlans-ports/{VlanPort.vlan_id}-{VlanPort.port_id}	N/A	N/A	Deletes the given VLAN-Port assignment from the model.

## Service Accounting

HTTP Method	Resource	Request	Response	Description
GET	.../accounting			
		N/A	Accounting	Returns accounting configuration.
PUT	.../accounting			
		Accounting	Accounting	Updates the given accounting configuration to the system.

## Service AclPort

HTTP Method	Resource	Request	Response	Description
GET	.../ports-access-groups			
		N/A	WiredElementList	Returns the list of ACL Port Policy elements matching the given query.
POST	.../ports-access-groups			
		AclPortPolicy	AclPortPolicy	Adds the given ACL Port Policy to the model.
DELETE	.../ports-access-groups/{AclPortPolicy.port_id}-{AclPortPolicy.acl_id}-{AclPortPolicy.direction}			
		N/A	N/A	Deletes the ACL Port Policy with the given ID from the model.

Table Continued

HTTP Method	Resource	Request	Response	Description
GET	.../ports-access-groups/{AcIPortPolicy.port_id}-{AcIPortPolicy.acl_id}-{AcIPortPolicy.direction}/stats	N/A	AcIPortPolicyStats	Returns the ACL statistics for given ACL ID, Port, and Direction.

## Service AcIvlan

HTTP Method	Resource	Request	Response	Description
GET	.../vlans-access-groups	N/A	WiredElementList	Returns the list of ACL VLAN Policy elements matching the given query.
POST	.../vlans-access-groups	AcIvlanPolicy	AcIvlanPolicy	Adds the given ACL VLAN Policy to the model.
DELETE	.../vlans-access-groups/{AcIvlanPolicy.vlan_id}-{AcIvlanPolicy.acl_id}-{AcIvlanPolicy.direction}	N/A	N/A	Deletes the ACL VLAN Policy with the given ID from the model.
GET	.../vlans-access-groups/{AcIvlanPolicy.vlan_id}-{AcIvlanPolicy.acl_id}-{AcIvlanPolicy.direction}/stats	N/A	AcIvlanPolicyStats	Returns the ACL statistics for given ACL ID, VLAN, and Direction.

## Service Activate

HTTP Method	Resource	Request	Response	Description
POST	.../activate			
		ActivateProvisionRequest	ActivateProvisionResult	Enable system provisioning and software update using Aruba Activate.
GET	.../activate/config	N/A	ActivateConfig	Returns Aruba Activate provisioning or software update configuration.
PUT	.../activate/config	ActivateConfig	ActivateConfig	Updates attributes for Aruba Activate provisioning or software update.

## Service ArubaVpn

HTTP Method	Resource	Request	Response	Description
GET	.../amp-server			
		N/A	AmpServer	Returns the Amp server IP, group, folder and secret.
PUT	.../amp-server	AmpServer	AmpServer	Configure the Amp Server.
DELETE	.../amp-server			
		N/A	N/A	Deletes the Aruba VPN configuration.
GET	.../aruba-vpn			
		N/A	ArubaVpn	Returns the Aruba VPN type, peer IP address, ToS and TTL value.

*Table Continued*



HTTP Method	Resource	Request	Response	Description
PUT	.../aruba-vpn	ArubaVpn	ArubaVpn	Configure the Aruba VPN.
DELETE	.../aruba-vpn	N/A	N/A	Deletes the Aruba VPN configuration.

## Service Authentication

HTTP Method	Resource	Request	Response	Description
GET	.../authentication	N/A	Authentication	Returns the Authentication Attributes configured on the system.
PUT	.../authentication	Authentication	Authentication	Updates the given authentication configuration to the system.
GET	.../authentication/console	N/A	AuthenticationConsole	Returns console authentication configuration.
PUT	.../authentication/console	AuthenticationConsole	AuthenticationConsole	Updates the given console authentication configuration to the system.
GET	.../authentication/ssh	N/A	AuthenticationSsh	Returns ssh authentication configuration.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
PUT	.../authentication/ssh	AuthenticationSsh	AuthenticationSsh	Updates the given ssh authentication configuration to the system.

## Service Authorization

HTTP Method	Resource	Request	Response	Description
GET	.../authorization	N/A	Authorization	Returns authorization configuration.
PUT	.../authorization	Authorization	Authorization	Updates the given authorization configuration to the system.

## Service BpsCommand

HTTP Method	Resource	Request	Response	Description
POST	.../stacking/bps/disable	N/A	N/A	Disable BPS stack.
POST	.../stacking/bps/enable	N/A	N/A	Enable BPS stack.
POST	.../stacking/bps/factory_reset	N/A	N/A	Erase the startup configuration and all knowledge of other stack members.
POST	.../stacking/bps/member/remove	N/A	N/A	Erases the stack member configuration.
POST	.../stacking/bps/member/shutdown			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	N/A	Shut down the specified stack member.
POST	.../stacking/bps/set_stack			
		N/A	N/A	Makes the inactive stack active.

## Service BpsConfig

HTTP Method	Resource	Request	Response	Description
GET	.../stacking/bps/info			
		N/A	N/A	Returns the BPS stack information.
PUT	.../stacking/bps/info			
		N/A	N/A	Updates the BPS stack information.
GET	.../stacking/bps/members			
		N/A	N/A	Returns all BPS member configuration.
POST	.../stacking/bps/members			
		N/A	N/A	Adds the BPS member matching the given member ID.
GET	.../stacking/bps/members/{BpsMember.member_id}			
		N/A	N/A	Returns the BPS member configuration matching the given member ID.
PUT	.../stacking/bps/members/{ BpsMember.member_id}			
		N/A	N/A	Updates the BPS member configuration matching the given member ID.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../stacking/bps/members/system_info	N/A	N/A	Returns all BPS member system information.
GET	.../stacking/bps/members/system_info /{BpsMemberSystemInfo.member_id}	N/A	BpsMemberSystemInfo	Returns the BPS member's system information matching the given member ID.
GET	.../stacking/bps/stack_ports	N/A	N/A	Returns all BPS stack ports.
GET	.../stacking/bps/stack_ports/members/{ BpsStackPort.member_id}/stack_port/{ BpsStackPort.stacking_port}	N/A	N/A	Returns the details of the specified stack port of the member matching the given member ID.

## Service CableDiagnostics

HTTP Method	Resource	Request	Response	Description
POST	.../cable_diagnostics	N/A	N/A	To run cable diagnostics on all ports those support cable diagnostics. No response will be seen if the diagnostics is run on a port connected to rest client.
POST	.../cable_diagnostics/clear	N/A	N/A	To clear cable diagnostics on all ports.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
POST	.../cable_diagnostics/clear/port	CableDiagnosticsCo mmand	N/A	To clear cable diagnostics results on a port.
POST	.../cable_diagnostics/port	CableDiagnosticsCo mmand	N/A	To run cable diagnostics on a port. No response will be seen if the diagnostics is run on a port connected to rest client.
GET	.../cable_diagnostics/status	N/A	WiredElementList	Returns cable diagnostics status.
GET	.../cable_diagnostics/status/{CableDiagnostics.port_id}	N/A	CableDiagnostics	Returns cable diagnostics status per port.

## Service CaptivePortal

HTTP Method	Resource	Request	Response	Description
GET	.../captive_portal	N/A	CaptivePortal	Returns the global Captive Portal Configuration.
PUT	.../captive_portal	CaptivePortal	CaptivePortal	Updates the global Captive Portal Configuration.

## Service CfgBackupCmd

HTTP Method	Resource	Request	Response	Description
GET	.../system/config/cfg_backup_files			
		N/A	WiredElementList	Returns the list of backup configuration file details.
POST	.../system/config/cfg_backup_files	CfgBackupconf	ConfigFileDetails	Save the given configuration File to the system.
GET	.../system/config/cfg_backup_files/ {ConfigFileDetails.file_name}			
		N/A	ConfigFileDetails	Returns the details of backup configuration files by name.

## Service CfgRestoreCmd

HTTP Method	Resource	Request	Response	Description
POST	.../system/config/cfg_restore			
		CfgRestore	CurrentRestoreStatus	Restore the given configuration as the running configuration without reboot. REST performs the config restoration in non-blocking mode.
GET	.../system/config/cfg_restore/status			
		N/A	CfgRestoreDetails	Returns the status of cfg-restore process.

## Service CfgRestoreDiff

HTTP Method	Resource	Request	Response	Description
POST	.../system/config/cfg_restore/latest_diff			
		CfgRestoreDiff	CurrentDiffStatus	Provide the list of changes that will be applied on the running configuration.
GET	.../system/config/cfg_restore/latest_diff/status			
		N/A	CfgRestoreDiffStatus	Returns the status difference between two configuration files.

## Service CfgRestorePayload

HTTP Method	Resource	Request	Response	Description
POST	.../system/config/cfg_restore/payload			
		CfgRestorePayload	CfgRestorePayloadStatus	Accepts the encoded input and restore it as running configuration; REST performs the config restoration in non-blocking mode.
GET	.../system/config/cfg_restore/payload/status			
		N/A	CfgRestoreDetails	Returns the status of the applied encoded configuration file.

## Service CfgRestorePayloadDiff

HTTP Method	Resource	Request	Response	Description
POST	.../system/config/cfg_restore/payload/latest_diff			
		CfgRestorePayloadDiff	CurrentPayloadDiffStatus	Provide the list of changes that will be applied on the running configuration.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../system/config/cfg_restore/ payload/latest_diff/status	N/A	CfgRestoreDiffStatus	Returns the status difference between two configuration files.

## Service CliCommand

HTTP Method	Resource	Request	Response	Description
POST	.../cli	N/A	N/A	Cli command interface.

## Service CliBatchCommand

HTTP Method	Resource	Request	Response	Description
POST	.../cli_batch	N/A	N/A	Cli batch command.
GET	.../cli_batch/status	N/A	N/A	Cli batch command status.

## Service ConfigHash

HTTP Method	Resource	Request	Response	Description
GET	.../system/config/config_hash	N/A	ConfigHash	Returns the SHA of startup configuration.
GET	.../system/config/running_config_hash	N/A	RunningConfigHash	Returns the SHA of running configuration.



## Service ConfigPayload

HTTP Method	Resource	Request	Response	Description
POST	.../system/config/payload			
		ConfigPayload	ConfigPayloadStatus	Accepts the encoded input. If it is for backup configuration, backup the configuration to flash. If it is a patch file content then download it to flash.

## Service ConfigurationResetCommand

HTTP Method	Resource	Request	Response	Description
POST	.../system/configuration-reset			
		N/A	N/A	Reset the system configuration.

## Service DeviceProfile

HTTP Method	Resource	Request	Response	Description
GET	.../device_identities			
		N/A	N/A	Returns all the device identity configuration.
POST	.../device_identities			
		N/A	N/A	Adds the given device identity configuration to the model.
GET	.../device_identities/{DeviceIdentity.device_name}			
		N/A	N/A	Returns the given device identity configuration.
PUT	.../device_identities/{DeviceIdentity.device_name}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	N/A	Update the given device identity configuration to the model.
DELETE	.../device_identities/{DeviceIdentity.device_name}			
		N/A	N/A	Deletes the given device identity configuration.
GET	.../device_profiles			
		N/A	N/A	Returns all device profile.
POST	.../device_profiles			
		N/A	N/A	Adds the given device profile configuration to the model.
GET	.../device_profiles-vlans			
		N/A	N/A	Returns all device profile associations.
POST	.../device_profiles-vlans			
		N/A	N/A	Adds the given device profile association to the model.
GET	.../device_profiles-vlans/{DeviceProfileVlan.device_profile_name}- {DeviceProfileVlan.tagged_vlan_id}			
		N/A	N/A	Returns the device profile vlan configuration.
DELETE	.../device_profiles-vlans/{DeviceProfileVlan.device_profile_name}- {DeviceProfileVlan.tagged_vlan_id}			
		N/A	N/A	Deletes device profile vlans.
GET	.../device_profiles/{DeviceProfileConfig.device_profile_name}			
		N/A	DeviceProfileConfig	Returns the device profile configuration.
PUT	.../device_profiles/{DeviceProfileConfig.device_profile_name}			

Table Continued

HTTP Method	Resource	Request	Response	Description
		N/A	N/A	Update the given device profile configuration to the model.
DELETE	.../device_profiles/{DeviceProfileConfig.device_profile_name}			
		N/A	N/A	Deletes device profile configuration.
GET	.../device_profiles/status			
		N/A	N/A	Returns the device profile status configuration.
GET	.../device_types			
		N/A	N/A	Returns all device type configurations.
GET	.../device_types/{DeviceTypeConfig.device_type}			
		N/A	N/A	Returns the device type configuration.
PUT	.../device_types/{DeviceTypeConfig.device_type}			
		N/A	N/A	Update the given device type configuration to the model.



/device\_identity added in device\_profiles.

## Service DhcpRelay

HTTP Method	Resource	Request	Response	Description
GET	.../dhcp-relay			
		N/A	DhcpRelay	Returns the DHCP-Relay global attributes.
PUT	.../dhcp-relay			
		DhcpRelay	DhcpRelay	Update the DHCP-Relay global attributes.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../dhcp-relay/option_82	N/A	DhcpRelayOption82	Returns the DHCP Relay Option 82.
PUT	.../dhcp-relay/option_82	DhcpRelayOption82	DhcpRelayOption82	Updates the given DHCP Relay Option 82.
GET	.../dhcp/options	N/A	DhcpOptions	Returns the status of DHCP Options.
PUT	.../dhcp/options	DhcpOptions	DhcpOptions	Updates the status of given DHCP Options.

## Service DhcpRelayVlan

HTTP Method	Resource	Request	Response	Description
GET	.../vlans/dhcp-relay	N/A	WiredElementList	Returns the all helper addresses under all vlans.
POST	.../vlans/dhcp-relay	DhcpRelayVlan	DhcpRelayVlan	Adds the given DHCP Relay VLAN with helper address in the model.
GET	.../vlans/dhcp-relay/{DhcpRelayVlan.vlan_id}-{DhcpRelayVlan.dhcp_helper_address.octets}	N/A	DhcpRelayVlan	Returns the DHCP Relay VLAN with helper address.
DELETE	.../vlans/dhcp-relay/{DhcpRelayVlan.vlan_id}-{DhcpRelayVlan.dhcp_helper_address.octets}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	N/A	Deletes the DHCP Relay VLAN Helper address from a VLAN ID.
GET	.../vlans/{DhcpRelayVlan.vlan_id} /dhcp-relay			
		N/A	DhcpRelayVlan	Returns the DHCP Relay VLAN matching the given ID.
PUT	.../vlans/{DhcpRelayVlan.vlan_id} /dhcp-relay			
		DhcpRelayVlan	DhcpRelayVlan	Updates the given DHCP Relay VLAN in the model.

## Service DhcpServer

HTTP Method	Resource	Request	Response	Description
GET	.../dhcp-server			
		N/A	DhcpServer	Returns the DHCP-Server.
PUT	.../dhcp-server			
		DhcpServer	DhcpServer	Updates DHCP-Server in the model.

## Service DhcpServerPool

HTTP Method	Resource	Request	Response	Description
GET	.../dhcp-server/pools			
		N/A	N/A	Returns DHCP-Server pools.
POST	.../dhcp-server/pools			
		N/A	N/A	Adds the given DHCP-Server pool to the model.
GET	.../dhcp-server/pools/{DhcpServerPool.pool_name}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	N/A	Returns the DHCP-Server pool by name.
DELETE	.../dhcp-server/pools/{DhcpServerPool.pool_name}			
		N/A	N/A	Deletes DHCP-Server pool by name.

## Service Dot1x

HTTP Method	Resource	Request	Response	Description
GET	.../dot1x			
		N/A	Dot1x	Returns the global 802.1X configuration.
PUT	.../dot1x			
		Dot1x	Dot1x	Updates the global 802.1X configuration.

## Service Dot1xAuthenticatorPort

HTTP Method	Resource	Request	Response	Description
GET	.../dot1x/authenticator			
		N/A	N/A	Returns the list of 802.1X Authenticator Port elements matching the given query.
GET	.../dot1x/authenticator/{Dot1xAuthenticatorPort.port_id}			
		N/A	Dot1xAuthenticatorPort	Returns the 802.1X Authenticator Port matching the given ID.
PUT	.../dot1x/authenticator/{Dot1xAuthenticatorPort.port_id}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	N/A	Updates the given 802.1X Authenticator Port in the model.
POST	.../dot1x/authenticator/{Dot1xAuthenticatorPort.port_id}/clearstats	N/A	N/A	Clear statistics of dot1x authenticator based on port id.
GET	.../dot1x/authenticator/{Dot1xAuthenticatorClientStats.port_id}/client_stats	N/A	N/A	Returns the 802.1X Authenticator client session statistics matching the given port.
POST	.../dot1x/authenticator/{Dot1xAuthenticatorPort.port_id}/initialize	N/A	N/A	Initialize of dot1x authenticator based on port id.
POST	.../dot1x/authenticator/{Dot1xAuthenticatorPort.port_id}/reauthenticate	N/A	N/A	Initialize of dot1x authenticator based on port id.
GET	.../dot1x/authenticator/{Dot1xAuthenticatorSessionCounters.port_id}/session_counters	N/A	N/A	Returns the 802.1X Authenticator session counters matching the given port.
GET	.../dot1x/authenticator/{Dot1xAuthenticatorStats.port_id}/stats	N/A	N/A	Returns the 802.1X Authenticator statistics matching the given port.
GET	.../dot1x/authenticator/{Dot1xAuthenticatorStatus.port_id}/stats	N/A	N/A	Returns the 802.1X Authenticator status matching the given port.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../dot1x/authenticator/client_stats	N/A	N/A	Returns the list of 802.1X Authenticator client session statistics elements matching the given query.
GET	.../dot1x/authenticator/session_counters	N/A	N/A	Returns the list of 802.1X Authenticator session counters elements matching the given query.
GET	.../dot1x/authenticator/stats	N/A	N/A	Returns the list of 802.1X Authenticator statistics elements matching the given query.
GET	.../dot1x/authenticator/status	N/A	N/A	Returns the list of 802.1X Authenticator status elements matching the given query.

## Service Dot1xAuthenticationMethod

HTTP Method	Resource	Request	Response	Description
GET	.../dot1x/authentication_method	N/A	Dot1xAuthenticationMethod	Returns the 802.1X Authentication method details.
PUT	.../dot1x/authentication_method	Dot1xAuthenticationMethod	Dot1xAuthenticationMethod	Updates the given 802.1X Authentication method details.



## Service Dot1xPortSecurity

HTTP Method	Resource	Request	Response	Description
GET	.../dot1x/port_security			
		WiredCollectionQuery	WiredElementList	Returns the list of 802.1X Port Security elements matching the given query.
GET	.../dot1x/port_security/{Dot1xPortSecurity.port_id}	N/A	Dot1xPortSecurity	Returns the 802.1X Port security details matching the given ID.
PUT	.../dot1x/port_security/{Dot1xPortSecurity.port_id}	Dot1xPortSecurity	Dot1xPortSecurity	Updates the given 802.1X Port security in the model.

## Service Dsnoop

HTTP Method	Resource	Request	Response	Description
GET	.../dsnoop			
		N/A	Dsnoop	Returns the DHCP-Snooping global attributes.
PUT	.../dsnoop	Dsnoop	Dsnoop	Update the DHCP-Snooping global attributes.
GET	.../dsnoop/authorized_server/{DsnoopAuthServer.authorized_server.octets}			
		N/A	DsnoopAuthServer	GET a DHCP Snooping Authorized server from the system.
DELETE	.../dsnoop/authorized_server/{DsnoopAuthServer.authorized_server.octets}			
		N/A	N/A	Remove a DHCP Snooping Authorized server from the system.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../dsnoop/option_82	N/A	DsnoopOption82	Returns the DHCP-Snooping option 82 attributes.
PUT	.../dsnoop/option_82	DsnoopOption82	DsnoopOption82	Update the DHCP-Snooping option 82 attributes.

## Service EventLog

HTTP Method	Resource	Request	Response	Description
Get	.../system-event-log			
		EventLogged	LoggedEventResponseList	Download/Query logged events from system.

## Service EventSubscription

HTTP Method	Resource	Request	Response	Description
GET	.../event-subscription			
		N/A	SubscriptionStatusList	Returns the subscription status list.
POST	.../event-subscription	SubscriptionRequest	SubscriptionStatus	Subscribe to receive events.
GET	.../event-subscription/{SubscriptionStatus.subscription_id}			
		N/A	SubscriptionStatus	Returns the subscription status.
PUT	.../event-subscription/{SubscriptionStatus.subscription_id}	SubscriptionRequest	SubscriptionStatus	Update subscription.
DELETE	.../event-subscription/{SubscriptionStatus.subscription_id}			
		N/A	N/A	Delete subscription.

## Service Igmp

HTTP Method	Resource	Request	Response	Description
GET	.../igmp			
		N/A	Igmp	Returns IGMP global configuration.
PUT	.../igmp			
		Igmp	Igmp	Updates the IGMP global configuration.
GET	.../igmp/ports			
		N/A	WiredElementList	Returns the list of IGMP fastlearn Port elements matching the given query.
GET	.../igmp/ports/{IgmpPort.port_id}			
		N/A	IgmpPort	Returns IGMP port fastlearn details.
PUT	.../igmp/ports/{IgmpPort.port_id}			
		IgmpPort	IgmpPort	Updates the IGMP port fastlearn details..
POST	.../igmp/reload			
		N/A	N/A	Reset IGMP state on all interfaces.
GET	.../igmp/vlans			
		N/A	WiredElementList	Returns the list of VLAN IGMP elements matching the given query.
GET	.../igmp/vlans/ports			
		N/A	WiredElementList	Returns the list of VLAN IGMP port configuration elements matching the given query.
GET	.../igmp/vlans/static_groups			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	WiredElementList	Returns the list of VLAN IGMP static groups configuration elements matching the given query.
POST	.../igmp/vlans/static_groups	VlanIgmpStaticGroup	VlanIgmpStaticGroup	Creates the given VLAN IGMP static groups configuration in the model.
GET	.../igmp/vlans/static_groups/{Void .id}	N/A	VlanIgmpStaticGroup	Returns the VLAN IGMP static group configuration matching the given ID.
DELETE	.../igmp/vlans/static_groups/{Void .id}	N/A	N/A	Deletes the VLAN IGMP static group configuration matching the given ID.
GET	.../igmp/vlans/stats	N/A	WiredElementList	Returns the list of VLAN IGMP Stats elements matching the given query.
GET	.../vlans/{VlanIgmp.vlan_id}/igmp	N/A	VlanIgmp	Returns the VLAN IGMP matching the given ID.
PUT	.../vlans/{VlanIgmp.vlan_id}/igmp	VlanIgmp	VlanIgmp	Updates the given VLAN IGMP in the model.
GET	.../vlans/{VlanIgmpPort.vlan_id}/igmp/ports/{VlanIgmpPort .port_id}			

Table Continued

HTTP Method	Resource	Request	Response	Description
		N/A	VlanIcmpPort	Returns the VLAN IGMP port configuration matching the given ID.
PUT	.../vlans/{VlanIcmpPort.vlan_id}/icmp/ports/{VlanIcmpPort .port_id}	VlanIcmpPort	VlanIcmpPort	Updates the given VLAN IGMP port configuration in the model.
GET	.../vlans/{VlanIcmp.vlan_id}/icmp/stats	N/A	VlanIcmpStats	Returns the VLAN IGMP Stats matching the given ID.

## Service IncludeCredentials

HTTP Method	Resource	Request	Response	Description
GET	.../system/include-credentials	N/A	IncludeCredentials	Returns the Include-Credentials settings.
PUT	.../system/include-credentials	IncludeCredentials	IncludeCredentials	Updates the Include-Credentials settings.

## Service IpAuth

HTTP Method	Resource	Request	Response	Description
GET	.../ip_auth	WiredCollectionQuery	WiredElementList	Returns the list of IP Auth Configuration matching the given query.
POST	.../ip_auth	IpAuth	IpAuth	Adds the given IP Auth Configuration to the system.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
DELETE	.../ip_auth/{IpAuth.id}	N/A	Void	Deletes the IP Auth Configuration with the given ID from the model.
GET	.../ip_auth/{IpAuth.id}	N/A	IpAuth	Returns the IP Auth Configuration matching the given ID.

## Service IpClientTracker

HTTP Method	Resource	Request	Response	Description
GET	.../ip/client_tracker	N/A	IpClientTracker	Returns Ip Client Tracker attributes.
PUT	.../ip/client_tracker	IpClientTracker	IpClientTracker	Update the Ip Client Tracker attributes.

## Service IpSlaClearCommand

HTTP Method	Resource	Request	Response	Description
POST	.../ip-slas/{IpSlaConfig.ipsla_id}/clearstats	N/A	N/A	Clears History and Message statistics of ipsla based on IPSLA ID.

## Service IpSlaClearResponderStatsCommand

HTTP Method	Resource	Request	Response	Description
POST	.../ipsla_responders/clear_stats/{ IpSlaResponder.responder_type}- { IpSlaResponder.destination_address}-{ IpSlaResponder.destination_port}- { IpSlaResponder.source_address}			
		N/A	N/A	Clears statistics of ipsla responder based on responder details.

## Service IPSlaConfig

HTTP Method	Resource	Request	Response	Description
GET	.../ip-slas			
		N/A	WiredElementList	Returns the list of IP-SLA elements matching the given query.
POST	.../ip-slas	IpSlaConfig	IpSlaConfig	Adds the given IP-SLA to the model.
GET	.../ip-slas/{ IpSlaConfig.ipsla_id}			
		N/A	IpSlaConfig	Returns the IP-SLA matching the given ID.
DELETE	.../ip-slas/{ IpSlaConfig .ipsla_id}			
		N/A	Void	Deletes the IP-SLA with the given ID from the model.
GET	.../ip-slas/{ IpSlaStatus .ipsla_id}/status			
		N/A	IpSlaStatus	Returns the IP-SLA matching the given ID.
PUT	.../ip-slas/{ IpSlaStatus .ipsla_id}/status			
		IpSlaStatus	IpSlaStatus	Updates the IP-SLA status matching the given ID.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	../ip-slas/history/{ IpSlaHistory .ipsla_id}	N/A	IpSlaHistory	Returns the IP-SLA history matching the given ID.
GET	../ip-slas/jitter-voip/aggregated_results/{ IpSlaJitterVoipResults .ipsla_id}	N/A	IpSlaJitterVoipResults	Returns the IP-SLA aggregated results for UDP Jitter/ Jitter-For-Voip for the given ID.
GET	../ip-slas/jitter-voip/results/{ IpSlaJitterVoipResults .ipsla_id}	N/A	IpSlaJitterVoipResults	Returns the IP-SLA results for UDP Jitter/ Jitter-For-Voip for the given ID.
GET	../ip-slas/stats/{ IpSlaMessageStats .ipsla_id}	N/A	IpSlaMessageStats	Returns the IP-SLA stats matching the given ID.

## Service IpSlaResponder

HTTP Method	Resource	Request	Response	Description
GET	../ipsla_responders	N/A	WiredElementList	Returns IP SLA Responder List.
POST	../ipsla_responders	IpSlaResponder	IpSlaResponder	Adds the given IP SLA responder to the model.
GET	../ipsla_responders/{IpSlaResponder.responder_type}- {IpSlaResponder .destination_address}-{ IpSlaResponder .destination_port}- {IpSlaResponder.source_address}	N/A	IpSlaResponder	Returns the IP SLA responder by responder details.

*Table Continued*



HTTP Method	Resource	Request	Response	Description
DELETE	.../ipsla_responders/{IpSlaResponder.responder_type}- {IpSlaResponder .destination_address}-{ IpSlaResponder .destination_port}- {IpSlaResponder .source_address}	N/A	N/A	Deletes IP SLA responder by responder details.

## Service IpSlaResponderStats

HTTP Method	Resource	Request	Response	Description
GET	.../ipslas_responders/statistics/{IpSlaResponderStats.responder_type}- { IpSlaResponderStats .destination_address}-{ IpSlaResponderStats .destination_port}- { IpSlaResponderStats .source_address}	N/A	IpSlaResponderStats	Returns the IP SLA responder statistics by responder details.

## Service LACP

HTTP Method	Resource	Request	Response	Description
GET	.../lACP/port	N/A	WiredElementList	Returns the list port trunk configurations
POST	.../lACP/port	LACP	LACP	Adds port to a LACP Trunk.
GET	.../lACP/port/{LACP.port_id}	N/A	LACP	Returns the LACP Port Configuration.
DELETE	.../lACP/port/{LACP.port_id}	N/A	Void	Deletes Port From a LACP trunk.

## Service LocatorLedBlink

HTTP Method	Resource	Request	Response	Description
POST	../locator-led-blink			
		N/A	N/A	Triggers a locator led blink based on the given parameters.
GET	../led_locator_info/{LocatorLedBlinkCommand.member_id}			
		N/A	LocatorLedResult	Returns the LED Locator information by member.

## Service LoopProtect

HTTP Method	Resource	Request	Response	Description
GET	../loop_protect			
		N/A	LoopProtect	Returns the attributes of loop protection
PUT	../loop_protect			
		LoopProtect	LoopProtect	Updates attributes of Loop Protection
GET	../loop_protect/ports			
		N/A	WiredElementList	Returns Loop Protect configuration for all ports.
GET	../loop_protect/ports/{LoopProtectPort.port_id}			
		N/A	LoopProtectPort	Returns Loop Protect per port details.
PUT	../loop_protect/ports/{LoopProtectPort.port_id}			
		LoopProtectPort	LoopProtectPort	Updates attributes of Loop Protect per port.
GET	../loop_protect/vlans			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../loop_protect/vlans/{LoopProtectVlan.vlan_id}	N/A	WiredElementList	Retrieves Loop Protect VLANs.
PUT	.../loop_protect/vlans/{LoopProtectVlan.vlan_id}	N/A	LoopProtectVlan	Retrieves Loop Protect VLANs by vlan_id.
		LoopProtectVlan	LoopProtectVlan	Updates Loop Protect VLANs by vlan_id.

## Service MacAuthenticationPort

HTTP Method	Resource	Request	Response	Description
GET	.../mac-authentication/port			
		N/A	WiredElementList	Returns the list of MAC Authentication Port elements matching the given query.
GET	.../mac-authentication/port/{MacAuthenticationPort.port_id}			
		N/A	MacAuthenticationPort	Returns the MAC Authentication Port matching the given ID.
PUT	.../mac-authentication/port/{MacAuthenticationPort.port_id}			
		N/A	MacAuthenticationPort	Updates the given MAC Authentication Port in the model.

## Service MacAuthentication

HTTP Method	Resource	Request	Response	Description
GET	.../mac-authentication			
		N/A	MacAuthentication	Returns the global MAC authentication configuration.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
PUT	.../mac-authentication	MacAuthentication	MacAuthentication	Updates the global MAC authentication configuration.

## Service MacTable

HTTP Method	Resource	Request	Response	Description
GET	.../mac-table	N/A	WiredElementList	Returns a list of MAC entries (capped to 1K right now).
GET	.../mac-table/{MacAddress.octets}	N/A	MacTableEntry	Returns the MAC table entry for the given MAC address.
GET	.../ports/{Port.id}/mac-table	N/A	WiredElementList	Returns list of MAC entries learned on a given Port ID.
GET	.../vlans/{Vlan.vlan_id}/mac-table	N/A	WiredElementList	Returns list of MAC entries learned on a given VLAN ID.

## Service Module

HTTP Method	Resource	Request	Response	Description
GET	.../modules	N/A	Module	Returns the Module Information.

## Service Mstp

HTTP Method	Resource	Request	Response	Description
GET	.../mstp			
		N/A	Mstp	Returns the global MSTP settings.
PUT	.../mstp	Mstp	Mstp	Updates the global MSTP settings.
GET	.../mstp/port			
		N/A	WiredElementList	Returns the list of MSTP Port elements matching the given query.
GET	.../mstp/port/{ MstpPort .id}			
		N/A	MstpPort	Returns the MSTP Port matching the given ID.
PUT	.../mstp/port/{ MstpPort .id}	MstpPort	MstpPort	Updates the MSTP Port matching the given ID.

## Service Oobm

HTTP Method	Resource	Request	Response	Description
GET	.../oobm/interface/members			
				Returns the OOBM Interface settings for all members in stacked switches
GET	.../oobm/interface/members/{OobmInterface.member_id}			
				Returns the OOBM Interface settings per member_id in stacked switches.
PUT	.../oobm/interface/members/{OobmInterface.member_id}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	.../oobm/interface/members/{OobmInterfaceStats.member_id}/stats			Updates the OOBM Interface settings per member_id in stacked switches.
GET	.../oobm/interface/members/stats			Returns the OOBM Interface stats per member_id in stacked switches.
GET	.../oobm/ip			Returns the OOBM Interface stats for all members in stacked switches
PUT	.../oobm/ip			Returns the Global OOBM IP settings
GET	.../oobm/ip/members			Updates the Global OOBM IP settings
GET	.../oobm/ip/members/{OobmIp.member_id}			Returns the OOBM ip settings for all members in stacked switches
PUT	.../oobm/ip/members/{OobmIp.member_id}			Returns the OOBM IP settings per member_id in stacked switches
PUT	.../oobm/ip/members/{OobmIp.member_id}			Updates the OOBM IP settings per member_id in stacked switches

## Service Poe

HTTP Method	Resource	Request	Response	Description
GET	.../members/{MemberPoe.member_id}/poe	N/A	MemberPoe	Returns the member PoE details matching the given member ID in stacking enabled switches.
PUT	.../members/{MemberPoe.member_id}/poe	MemberPoe	MemberPoe	Updates the given member PoE details matching the given member ID in stacking enabled switches.
GET	.../poe/members	N/A	WiredElementList	Returns the list of member elements matching the given query in stacking enabled switches.
POST	.../poe/ports/{PortPoe.port_id}/reset	N/A	N/A	Reset the PoE controller to which the port belongs.
GET	.../system/status/power/consumption	N/A	WiredElementList	Returns the Power-Consumption status of the host system (no sampling info).



Applicable only for ArubaOS-Switch 5400R.

## Service PortMirrorSession

HTTP Method	Resource	Request	Response	Description
GET	.../port-mirror			
		N/A	WiredElementList	Returns the list of Port Mirror Session elements matching the given query.
POST	.../port-mirror			
		PortMirrorSession	PortMirrorSession	Adds the given Port Mirror Session to the model.
GET	.../port-mirror/PortMirrorSession.session_id}			
		N/A	PortMirrorSession	Returns the Port Mirror Session matching the given ID.
PUT	.../port-mirror/{PortMirrorSession.session_id}			
		PortMirrorSession	PortMirrorSession	Updates the given Port Mirror Session in the model.
DELETE	.../port-mirror/{PortMirrorSession.session_id}			
		N/A	N/A	Deletes the Port Mirror Session with the given ID from the model.

## Service PortRateLimit

HTTP Method	Resource	Request	Response	Description
GET	.../ports/icmp_rate_limit			
		N/A	WiredElementList	Returns ICMP rate limit configurations for all ports.
GET	.../ports/icmp_rate_limit/{PortIcmpRateLimit.port_id}			
		N/A	PortIcmpRateLimit	Returns port ICMP rate limit per port id.

*Table Continued*



HTTP Method	Resource	Request	Response	Description
PUT	.../ports/icmp_rate_limit/{PortIcmpRateLimit.port_id}	PortIcmpRateLimit	PortIcmpRateLimit	Updates attributes of port ICMP rate limit per port id.
POST	.../ports/icmp_rate_limit_trap_clear/{PortIcmpRateLimitTrapClear.port_id}	PortIcmpRateLimitTrapClear	N/A	Clears an existing ICMP rate limiting trap condition.
GET	.../ports/queues_rate_limit	N/A	WiredElementList	Returns Egress queues rate limit configurations for all ports.
GET	.../ports/queues_rate_limit/{PortQueuesRateLimit.port_id}-{PortQueuesRateLimit.queues_direction}	N/A	PortQueuesRateLimit	Returns egress queues rate limit per port id.

## Service PortSecurity

HTTP Method	Resource	Request	Response	Description
GET	.../intrusion_logs	N/A	WiredElementList	Returns the intrusion logs
GET	.../portsec_policies	N/A	WiredElementList	Returns the list of Port Security elements matching the given query.
GET	.../portsec_policies/{PortSecurityPolicy.port_id}	N/A	PortSecurityPolicy	Returns the Port Security matching the given ID.
PUT	.../portsec_policies/{PortSecurityPolicy.port_id}			

Table Continued

HTTP Method	Resource	Request	Response	Description
GET	.../portsec_policies/{PortSecMacAddress.port_id}/mac_addresses/{PortSecMacAddress.mac_address.octets}	PortSecurityPolicy	PortSecurityPolicy	Updates the given Port Security in the model.
DELETE	.../portsec_policies/{PortSecMacAddress.port_id}/mac_addresses/{PortSecMacAddress.mac_address.octets}	N/A	PortSecMacAddress	Returns the Port Security authorized mac address configured on a port. MAC format in uri should be xxx-xxx.
DELETE	.../portsec_policies/{PortSecMacAddress.port_id}/mac_addresses/{PortSecMacAddress.mac_address.octets}	N/A	N/A	Deletes a given Port Security authorized mac address configured. MAC format in uri should be xxx-xxx.
GET	.../portsec_policies/mac_addresses	N/A	WiredElementList	Returns all the Port Security authorized mac address configured.
POST	.../portsec_policies/mac_addresses	PortSecMacAddress	PortSecMacAddress	Adds an authorized mac address to port.

## Service QosPort

HTTP Method	Resource	Request	Response	Description
GET	.../qos/ports-policies	WiredCollectionQuery	WiredElementList	Returns the list of QoS Port Policy elements matching the given query.
POST	.../qos/ports-policies			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		QosPortPolicy	QosPortPolicy	Adds the given QoS Port Policy to the model.
DELETE	.../qos/ports-policies/{QosPortPolicy.port_id}-{QosPortPolicy.policy_id}	N/A	N/A	Deletes the QoS Port Policy with the given ID from the model.
GET	.../qos/ports-policies/arg	N/A	N/A	Returns the QoS statistics for given policy and Port.

## Service QosTrust

HTTP Method	Resource	Request	Response	Description
GET	.../qos/trust/ports	N/A	WiredElementList	Returns the Qos Trust configurations
PUT	.../qos/trust/ports/{QosTrust.port_id}	QosTrust	QosTrust	Returns the Qos Trust configuraion by port_id
GET	.../qos/trust/ports/{ QosTrust.port_id}	N/A	QosTrust	Update the Qos Trust configuration by port_id

## Service QosVlan

HTTP Method	Resource	Request	Response	Description
GET	.../qos/vlans-policies			
		WiredCollectionQuery	WiredElementList	Returns the list of QoS VLAN Policy elements matching the given query.
POST	.../qos/vlans-policies			
		QosVlanPolicy	QosVlanPolicy	Adds the given QoS VLAN Policy to the model.
DELETE	.../qos/vlans-policies/{QosVlanPolicy.vlan_id}-{QosVlanPolicy.policy_id}			
		N/A	N/A	Deletes the QoS VLAN Policy with the given ID from the model.
GET	.../qos/vlans-policies/{QosVlanPolicy.vlan_id}-{QosVlanPolicy.policy_id}/stats			
		N/A	QosVlanPolicyStats	Returns the QoS statistics for given policy and VLAN.

## Service RadiusServerGroup

HTTP Method	Resource	Request	Response	Description
POST	.../radius/server_group			
		RadiusServerGroup	RadiusServerGroup	Adds the given RADIUS server group to the model.
GET	.../radius/server_group/{RadiusServerGroup.server_group_name}			
		N/A	RadiusServerGroup	Returns the RADIUS server_group pool by name.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
DELETE	.../radius/server_group/{RadiusServerGroup.server_group_name}	N/A	Void	Deletes RADIUS server group by name.

## Service RedundancyManagement

HTTP Method	Resource	Request	Response	Description
GET	.../redundancy-management/stats	N/A	N/A	Returns the Redundancy Management stats.



New attributes, “member\_id”, “member\_description” and “member\_state” are added in RedundancyManagementStatsEntry.json (in response).

## Service RemovePatchfileCommand

HTTP Method	Resource	Request	Response	Description
POST	.../system/configuration_reset/patch_file	N/A	ErasePatchFile	Erase the stored patch file.

## Service RestVersion

HTTP Method	Resource	Request	Response	Description
GET	.../version	N/A	WiredElementList	Returns the REST Version details.

## Service Snmpv3

HTTP Method	Resource	Request	Response	Description
GET	.../snmpv3	N/A	SnmpV3	Returns the Snmpv3Server.
PUT	.../snmpv3	SnmpV3	SnmpV3	Updates the Snmpv3Server.
GET	.../snmpv3/users	N/A	WiredElementList	Returns all the Snmpv3Users.
POST	... /snmpv3/users	SnmpV3	SnmpV3User	Adds the given Snmpv3User.
GET	... /snmpv3/users/{SnmpV3User .user_name}	N/A	SnmpV3User	Returns the specified Snmpv3User.
PUT	... /snmpv3/users/{SnmpV3User .user_name}	SnmpV3	SnmpV3User	Updates the given Snmpv3User.
DELETE	... /snmpv3/users/{SnmpV3User .user_name}	N/A	N/A	Deletes the given Snmpv3User.
GET	... /snmpv3/notify_names	N/A	WiredElementList	Returns all the Snmpv3Notify entries.
POST	... /snmpv3/notify_names			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		SnmpV3NotifyName	SnmpV3NotifyName	Adds the given Snmpv3Notify entry.
GET	... /snmpv3/notify_names/{SnmpV3NotifyName .notify_name}	N/A	SnmpV3NotifyName	Returns the specified Snmpv3Notify entry.
DELETE	.../snmpv3/notify_names/{SnmpV3NotifyName .notify_name}	N/A	N/A	Deletes the given Snmpv3Notify entry.
GET	... /snmpv3/params	N/A	WiredElementList	Returns all the Snmpv3Params entries.
POST	... /snmpv3/params	SnmpV3Param	SnmpV3Param	Adds the given Snmpv3Param entry.
GET	... /snmpv3/params/{SnmpV3Param .parameter_name}	N/A	SnmpV3Param	Returns the specified Snmpv3Param entry.
PUT	... /snmpv3/params/{SnmpV3Param .parameter_name}	SnmpV3Param	SnmpV3Param	Updates the given Snmpv3Param entry.
DELETE	... /snmpv3/params/{SnmpV3Param.parameter_name}	N/A	N/A	Deletes the given Snmpv3Param entry.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
GET	... /snmpv3/target_addresses	N/A	WiredElementList	Returns all the Snmpv3Target Addresses entries.
POST	... /snmpv3/target_addresses	SnmpV3TargetAddress	SnmpV3TargetAddress	Adds the given Snmpv3Target Address entry.
GET	... /snmpv3/target_addresses/{SnmpV3TargetAddress .target_address_name}	N/A	SnmpV3TargetAddress	Returns the specified Snmpv3Target Address entry.
PUT	... /snmpv3/target_addresses/{SnmpV3TargetAddress .target_address_name}	SnmpV3TargetAddress	SnmpV3TargetAddress	Updates the given Snmpv3Target Address entry.
DELETE	... /snmpv3/target_addresses/{SnmpV3TargetAddress .target_address_name}	N/A	N/A	Deletes the given Snmpv3Target Address entry.

## Service SnmpServer

HTTP Method	Resource	Request	Response	Description
GET	.../snmp-server	N/A	SnmpServer	Returns properties of SNMP-Server.
PUT	.../snmp-server	SnmpServer	SnmpServer	Updates properties of SNMP-Server in the model.



## Service SnmpServerCommunities

HTTP Method	Resource	Request	Response	Description
GET	.../snmp-server/communities			
		N/A	WiredElementList	Returns the SNMP-Server Community list.
POST	.../snmp-server/communities			
		SnmpServerCommunity	SnmpServerCommunity	Adds SNMP-Server Communities in the model.
GET	.../snmp-server/communities/{SnmpServerCommunity .community_name}			
		N/A	SnmpServerCommunity	Returns the SNMP-Server Community by name.
PUT	.../snmp-server/communities/{SnmpServerCommunity .community_name}			
		N/A	SnmpServerCommunity	Updates the SNMP-Server Community by name.
DELETE	.../snmp-server/communities/{SnmpServerCommunity .community_name}			
		N/A	N/A	Deletes the SNMP-Server Community by name.

## Service SnmpServerHosts

HTTP Method	Resource	Request	Response	Description
GET	.../snmp-server/hosts			
		N/A	WiredElementList	Returns the SNMP-Server Host details.
POST	.../snmp-server/hosts			
		SnmpServerHost	SnmpServerHost	Adds SNMP-Server Hosts in the model.
GET	.../snmp-server/hosts/{ SnmpServerHost.host_ip}-{SnmpServerHost .community}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	SnmpServerHost	Returns the SNMP-Server Host by name.
PUT	.../snmp-server/hosts/{ SnmpServerHost.host_ip}-{SnmpServerHost .community}	SnmpServerHost	SnmpServerHost	Updates SNMP-Server Host in the model.
DELETE	.../snmp-server/hosts/{ SnmpServerHost.host_ip}-{SnmpServerHost .community}	N/A	N/A	Deletes the SNMP-Server Host by name.

## Service SnmpServerMib

HTTP Method	Resource	Request	Response	Description
GET	.../snmp-server/mib			
		N/A	SnmpServerMib	Returns SNMP-Server MIB settings.
PUT	.../snmp-server/mib	SnmpServerMib	SnmpServerMib	Updates SNMP-Server MIB settings in the model.

## Service SnmpServerResponseSource

HTTP Method	Resource	Request	Response	Description
GET	.../snmp-server/response-source			
		N/A	SnmpServerResponseSource	Returns the SNMP-Server Response Source details.
PUT	.../snmp-server/response-source	SnmpServerResponseSource	SnmpServerResponseSource	Updates SNMP-Server Response Source in the model.

## Service SnmpServerTraps

HTTP Method	Resource	Request	Response	Description
GET	../snmp-server/traps			
		N/A	SnmpServerTraps	Returns the SNMP-Server Traps.
PUT	../snmp-server/traps			
		SnmpServerTraps	SnmpServerTraps	Updates the SNMP-Server Traps in the model.
GET	../snmp-server/traps/linktraps			
		N/A	WiredElementList	Returns the SNMP-Server Link Change Traps.
GET	../snmp-server/traps/linktraps/{ SnmpServerLinkChangeTrap.port_id}			
		N/A	SnmpServerLinkChangeTrap	Returns the SNMP-Server Link Traps for specified port.
PUT	../snmp-server/traps/linktraps/{SnmpServerLinkChangeTrap.port_id}			
		SnmpServerLinkChangeTrap	SnmpServerLinkChangeTrap	Updates the SNMP-Server Link Traps for specified port in the model.

## Service SnmpServerTrapSource

HTTP Method	Resource	Request	Response	Description
GET	../snmp-server/trap-source			
		N/A	SnmpServerTrapSource	Returns the SNMP-Server Trap Source details.
PUT	../snmp-server/trap-source			
		SnmpServerTrapSource	SnmpServerTrapSource	Updates SNMP-Server Trap Source in the model.

## Service SpanningTree

HTTP Method	Resource	Request	Response	Description
GET	.../stp	N/A	SpanningTree	Returns Spanning Tree global configuration.
POST	.../stp	SpanningTree	SpanningTree	Updates attributes of SpanningTree.
GET	.../stp/ports	WiredCollectionQuery	WiredElementList	Returns Spanning Tree configuration for all ports.
GET	.../stp/ports/{SpanningTreePort.port_id}	N/A	SpanningTreePort	Returns Spanning Tree per port configuration.
GET	.../stp/ports/{SpanningTreePort.port_id}	SpanningTreePort	SpanningTreePort	Updates attributes of SpanningTree per port.



NOTE

Supports RapidPVST.

## Service SwitchSystem

HTTP Method	Resource	Request	Response	Description
GET	.../system/status/switch			
		N/A	SwitchSystemInfoStats	Returns the status of the ArubaOS-Switch system.

## Service Syslog

HTTP Method	Resource	Request	Response	Description
GET	.../syslog			
		N/A	Syslog	Returns the syslog details.
PUT	.../syslog			
		Syslog	Syslog	Adds the given syslog configurations.
GET	.../syslog/servers			
		N/A	WiredElementList	Returns the syslog server details.
POST	.../syslog/servers			
		SyslogServer	SyslogServer	Adds the given syslog server configurations.
GET	.../syslog/servers/{SyslogServer.ip_address.octets}			
		N/A	SyslogServer	Returns the syslog server details by server.
PUT	.../syslog/servers/{SyslogServer.ip_address.octets}			
		SyslogServer	SyslogServer	Updates the Syslog server Configurations by server.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
DELETE	.../syslog/servers/{SyslogServer.ip_address.octets}	N/A	N/A	Deletes the Syslog server Configurations by server.

## Service SyslogEventCriteria

HTTP Method	Resource	Request	Response	Description
GET	.../syslog/filters/{filter_name}/event-criterias	N/A	WiredElementList	Returns the syslog filter criteria details.
POST	.../syslog/filters/{filter_name}/event-criterias	SyslogEventCriteria	SyslogEventCriteria	Adds the given syslog filter criteria configurations.
GET	.../syslog/filters/{filter_name}/event-criterias/{criteria_id}	N/A	SyslogEventCriteria	Returns the syslog filter criteria details by Criteria id.
PUT	.../syslog/filters/{filter_name}/event-criterias/{criteria_id}	SyslogEventCriteria	SyslogEventCriteria	Update the Syslog EventCriteria Configurations by criteria id .
DELETE	.../syslog/filters/{filter_name}/event-criterias/{criteria_id}	N/A	Void	Deletes the Syslog EventCriteria Configurations by criteria_id .

## Service SyslogFilter

HTTP Method	Resource	Request	Response	Description
GET	../syslog/filters			
		N/A	WiredElementList	Returns the syslog filter details.
POST	../syslog/filters			
		SyslogFilter	SyslogFilter	Adds the given syslog configurations.
GET	../syslog/filters/{filter_name}			
		N/A	SyslogFilter	Get the Syslog Filter Configurations by filter name.
PUT	../syslog/filters/{filter_name}			
		SyslogFilter	SyslogFilter	Update the Syslog Filter Configurations by filter name.
DELETE	../syslog/filters/{filter_name}			
		N/A	Void	Deletes the Syslog Filter Configurations by filter name.

## Service TACACSProfile

HTTP Method	Resource	Request	Response	Description
GET	../tacacs_profile			
		N/A	TacacsProfile	Returns TACACS Profile.
PUT	../tacacs_profile			
		TacacsServer	TacacsServer	Updates attributes of TACACS Profile.
GET	../tacacs_profile/server/{TacacsServer.server_ip.octets}			

*Table Continued*

HTTP Method	Resource	Request	Response	Description
		N/A	TacacsServer	Returns a TACACS Profile Server with matching IP Address.
PUT	.../tacacs_profile/server/{TacacsServer.server_ip.octets}	TacacsServer	TacacsServer	Updates Tacacs Server attributes with matching IP Address.
DELETE	.../tacacs_profile/server/{TacacsServer.server_ip.octets}	N/A	N/A	Removes TACACS Profile Server with matching IP Address.

## Service TAConfig

HTTP Method	Resource	Request	Response	Description
GET	.../ta_profiles	N/A	WiredElementList	Returns the list of TA Profiles matching the given query.
POST	.../ta_profiles	TaProfile	TaProfile	Adds the given TA profile to the system.
GET	.../ta_profiles/{TaProfile.ta_name}	N/A	TaProfile	Returns the TA profile configuration matching the given profile name.
PUT	.../ta_profiles/{TaProfile.ta_name}	TaProfile	TaProfile	Updates the TA Profile Configuration matching the given profile name.

*Table Continued*



HTTP Method	Resource	Request	Response	Description
DELETE	.../ta_profiles/{TaProfile.ta_name}	N/A	N/A	Deletes the TA profile Configuration with the given profile name from the model.

## Service TelnetServer

HTTP Method	Resource	Request	Response	Description
GET	.../telnet/server	N/A	TelnetServer	Returns the telnet server configuration.
PUT	.../telnet/server	TelnetServer	TelnetServer	Updates the telnet server configuration.

## Service Transceiver

HTTP Method	Resource	Request	Response	Description
GET	.../transceivers	N/A	WiredElementList	Returns the list of Transceiver elements matching the given query.
GET	.../transceivers/{Transceiver.serial_number}	N/A	Transceiver	Returns the Transceiver matching the given ID.
GET	.../transceivers/{Transceiver.serial_number}/diagnostics	N/A	TransceiverDiagnostics	Returns the Transceiver Diagnostics matching the given ID.

## Service Trunk

HTTP Method	Resource	Request	Response	Description
GET	.../trunk/port			
		N/A	WiredElementList	Returns the list port trunk configurations.
POST	.../trunk/port	Trunk	Trunk	Adds port to a Static Manual Trunk.
GET	.../trunk/port/{Trunk.port_id}	N/A	Trunk	Returns the TRUNK Port Configuration.
DELETE	.../trunk/port/{Trunk.port_id}	N/A	Void	Deletes Port From a Trunk.

## Service TunneledNode

HTTP Method	Resource	Request	Response	Description
GET	.../tunneled_node_server			
		N/A	TunneledNodeServer	Returns the Tunneled Node configurations.
PUT	.../tunneled_node_server	QosTrust	TunneledNodeServer	Update the Tunneled Node configurations.
GET	.../tunneled_node_server/ports	N/A	WiredElementList	Returns all the Tunneled Node Ports configurations.
GET	.../tunneled_node_server/ports/ {TunneledNodePort.port_id}	N/A	TunneledNodePort	Returns the Tunneled Node configurations per port.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
PUT	.../tunneled_node_server/ports/ {TunneledNodePort.port_id}	N/A	TunneledNodePort	Update the Tunneled Node Port configurations.
GET	.../tunneled_node_server/ports/ {TunneledNodePortStatistics.port_id}/statistics	N/A	TunneledNodePortStatistics	Returns the Tunneled Node Server statistics per port.
GET	.../tunneled_node_server/ports/ aggregate_statistics	N/A	TunneledNodeAggregateStatistics	Returns the Tunneled Node aggregate statistics.
GET	.../tunneled_node_server/ports/statistics	N/A	WiredElementList	Returns the Tunneled Node Server statistics for all ports.

## Service VsfCommand

HTTP Method	Resource	Request	Response	Description
POST	.../stacking/vsf/disable	N/A	N/A	Disable VSF stack.
POST	.../stacking/vsf/enable	VsfEnableCommand	N/A	Enable and Modify domain of VSF stack.
POST	.../stacking/vsf/member/remove	VsfRemoveMemberCommand	N/A	Removes the member specified by member id and reboots the member if reboot is true.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
POST	.../stacking/vsf/member/shutdown	VsfMemberShutdownCommand	N/A	Shut down the member specified by member id.
POST	.../stacking/vsf/sequenced_reboot	VsfSequencedRebootCommand	N/A	Initiate a reboot of the VSF virtual chassis.

## Service VsfConfig

HTTP Method	Resource	Request	Response	Description
GET	.../stacking/vsf/global_config	N/A	VsfGlobalConfig	Returns the VSF Global Configuration.
PUT	.../stacking/vsf/global_config	VsfGlobalConfig	VsfGlobalConfig	Updates the VSF Global Configuration.
GET	.../stacking/vsf/info	N/A	VsfStackInfo	Returns the VSF stack Information.
GET	.../stacking/vsf/members/ {VsfMember.member_id}	N/A	VsfMember	Returns the VSF Member Configuration matching the given ID.

## Service WebAuth

HTTP Method	Resource	Request	Response	Description
GET	.../webauth	N/A	WebAuth	Returns the global WEB Auth configuration.

*Table Continued*

HTTP Method	Resource	Request	Response	Description
PUT	.../webauth	WebAuth	WebAuth	Updates the global WEB Auth configuration.

## Service WebAuthPort

HTTP Method	Resource	Request	Response	Description
GET	.../webauth/port	N/A	WiredElementList	Returns the list of WEB Auth Port elements matching the given query.
GET	.../webauth/port/{WebAuthPort.port_id}	N/A	WebAuthPort	Returns the WEB Auth Port matching the given ID.
PUT	.../webauth/port/{WebAuthPort.port_id}	WebAuthPort	WebAuthPort	Updates the given WEB Auth Port in the model.

### Networking Websites

Hewlett Packard Enterprise Networking Information Library

[www.hpe.com/networking/resourcefinder](http://www.hpe.com/networking/resourcefinder)

Hewlett Packard Enterprise Networking Software

[www.hpe.com/networking/software](http://www.hpe.com/networking/software)

Hewlett Packard Enterprise Networking website

[www.hpe.com/info/networking](http://www.hpe.com/info/networking)

Hewlett Packard Enterprise My Networking website

[www.hpe.com/networking/support](http://www.hpe.com/networking/support)

Hewlett Packard Enterprise My Networking Portal

[www.hpe.com/networking/mynetworking](http://www.hpe.com/networking/mynetworking)

Hewlett Packard Enterprise Networking Warranty

[www.hpe.com/networking/warranty](http://www.hpe.com/networking/warranty)

### General websites

Hewlett Packard Enterprise Information Library

[www.hpe.com/info/EIL](http://www.hpe.com/info/EIL)

For additional websites, see [Support and other resources](#).

## Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:  
<http://www.hpe.com/assistance>
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:  
<http://www.hpe.com/support/hpesc>

### Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

## Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:
  - Hewlett Packard Enterprise Support Center**  
[www.hpe.com/support/hpesc](http://www.hpe.com/support/hpesc)
  - Hewlett Packard Enterprise Support Center: Software downloads**  
[www.hpe.com/support/downloads](http://www.hpe.com/support/downloads)
  - Software Depot**  
[www.hpe.com/support/softwaredepot](http://www.hpe.com/support/softwaredepot)
- To subscribe to eNewsletters and alerts:  
[www.hpe.com/support/e-updates](http://www.hpe.com/support/e-updates)
- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:



Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

## Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

<http://www.hpe.com/support/selfrepair>

## Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

### Remote support and Proactive Care information

#### HPE Get Connected

[www.hpe.com/services/getconnected](http://www.hpe.com/services/getconnected)

#### HPE Proactive Care services

[www.hpe.com/services/proactivecare](http://www.hpe.com/services/proactivecare)

#### HPE Proactive Care service: Supported products list

[www.hpe.com/services/proactivecaresupportedproducts](http://www.hpe.com/services/proactivecaresupportedproducts)

#### HPE Proactive Care advanced service: Supported products list

[www.hpe.com/services/proactivecareadvancedsupportedproducts](http://www.hpe.com/services/proactivecareadvancedsupportedproducts)

### Proactive Care customer information

#### Proactive Care central

[www.hpe.com/services/proactivecarecentral](http://www.hpe.com/services/proactivecarecentral)

#### Proactive Care service activation

[www.hpe.com/services/proactivecarecentralgetstarted](http://www.hpe.com/services/proactivecarecentralgetstarted)

## Warranty information

To view the warranty for your product or to view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products* reference document, go to the Enterprise Safety and Compliance website:

[www.hpe.com/support/Safety-Compliance-EnterpriseProducts](http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts)

### Additional warranty information

#### HPE ProLiant and x86 Servers and Options

[www.hpe.com/support/ProLiantServers-Warranties](http://www.hpe.com/support/ProLiantServers-Warranties)



## HPE Enterprise Servers

[www.hpe.com/support/EnterpriseServers-Warranties](http://www.hpe.com/support/EnterpriseServers-Warranties)

## HPE Storage Products

[www.hpe.com/support/Storage-Warranties](http://www.hpe.com/support/Storage-Warranties)

## HPE Networking Products

[www.hpe.com/support/Networking-Warranties](http://www.hpe.com/support/Networking-Warranties)

# Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

[www.hpe.com/support/Safety-Compliance-EnterpriseProducts](http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts)

## Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

[www.hpe.com/info/reach](http://www.hpe.com/info/reach)

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

[www.hpe.com/info/ecodata](http://www.hpe.com/info/ecodata)

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

[www.hpe.com/info/environment](http://www.hpe.com/info/environment)

# Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback ([docsfeedback@hpe.com](mailto:docsfeedback@hpe.com)). When submitting your feedback, include the document title, part number, edition, and publication date located on the front cover of the document. For online help content, include the product name, product version, help edition, and publication date located on the legal notices page.