

HPE ArubaOS-Switch REST API and JSON Schema Reference Guide 16.03



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This switch software guide is intended for network administrators and support personnel, and applies to all switch families. This guide does not provide information about upgrading or replacing switch hardware. The information in this guide is subject to change without notice.

Applicable Products

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

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

Aruba 2620 Switch Series (J9623A, J9624A, J9625A, J9626A, J9627A)

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

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

Aruba 3800 Switch Series (J9573A, J9574A, J9575A, J9576A, J9584A)

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 may be 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.

More information

- JSON Schema and REST API documentation for X.16.01.xxxx software: [JSON Schema X.16.01.xxxx](#)
- [JSON Schema X.16.02.xxxx](#)
- [JSON Schema X.16.03.xxxx](#)

Commands

rest-interface

From within the configure context:

Syntax

```
rest-interface
```

Description

Enables the REST interface.



NOTE

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.

show rest-interface

```
HP-2530-48G-PoEP# 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
```

[no] web-management

```
HP-2530-48G-PoEP(config)# no web-management
HP-2530-48G-PoEP(config)# show rest-interface
REST Interface - Server Configuration
REST Interface           : Enabled
  REST Operational Status : Down
  HTTP Access             : Disabled
  HTTPS Access            : Disabled
```

[no] rest-interface

Syntax

```
[no] rest-interface
```

Description

Disables the REST-interface.

Enable rest-interface

```
Aruba-2540-48G-4SFPP(config)# rest-interface
Aruba-2540-48G-4SFPP(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 rest-interface

```
HP-2530-48G-PoEP(config)# no rest-interface
HP-2530-48G-PoEP(config)# show rest-interface

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

Validation rules

Validation	Error/Warning/Prompt
REST interface is disabled and a REST request is sent on HTTP port for processing.	The REST interface is disabled and requests cannot be processed.
Both REST and WEB management are enabled. An attempt is made to disable web-management.	The REST requests cannot be processed when WEB management is disabled.
Both REST and WEB management are disabled; an attempt is made to enable the REST interface.	The REST requests cannot be processed because WEB management is disabled. Enable WEB management for the REST interface to be operational.
If redirection of the REST request fails from HTTP	Redirection of the REST request to the REST server failed
If there is no response from REST server for about 2 mins	No response from the REST server

rest-interface session-idle-timeout

Syntax

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

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.

Usage

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

Sets the session-idle-timeout to the default value.

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.

show rest-interface

```
Aruba-2530-48G-PoEP# 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 stacking device, including VSF.
- REST interface is not supported in FIPS.

JSON Schema

JSON/REST API on device configuration and state

JSON Schema is defining the structure of JSON data/API.

More information

JSON Schema and REST API documentation for X.16.01.xxxx software: [JSON Schema](#)

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 --noproxy10.100.167.104 -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=09CG1bRuT5hkCPzI97mmDjpn4uLtsmgkBsAaWUr9h7Gx1kbsiASak1PEyj7Ov3n"
}
```

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 --noproxy10.100.167.104 --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 --noproxy10.100.167.104 --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 --noproxy10.100.167.104 --cookie
"sessionId=09CG1bRuT5hkCPzI97mmDjpn4uLtsmgkBsAaWUr9h7Gx1kbsiASak1PEyj7Ov3n" -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=8XU2msUzBJbXYClpFyVmaageB4iiRE6C94QsVYIfd3xiHelPjgUraYOx5JjWIUq" -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 ~]#

```

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
```

Service ACL

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

Table Continued

HTTP Method	Resource	Request	Response	Description
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/{ResequeneceCommand.acl_id}/rules/resequence	ResequeneceCommand	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.

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.

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.
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.

Table Continued

HTTP Method	Resource	Request	Response	Description
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.
PUT	.../dot1x/supplicant/{Dot1xSupplicantPort.port_id}	Dot1xSupplicantPort	Dot1xSupplicantPort	Updates the given 802.1X Supplicant Port in the model.

Service FileTransfer

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

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 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}			

Table Continued

HTTP Method	Resource	Request	Response	Description
		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 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/local-port			
		N/A	CommonElementList	Retrieve the complete list of LLDP Local Port elements
GET	.../lldp/local-port/{LldpLocalPort.port_id}			
		N/A	LldpLocalPort	Get LLDP Local Port Configurations

Table Continued

HTTP Method	Resource	Request	Response	Description
PUT	.../lldp/local-port/{LldpLocalPort.port_id}	LldpLocalPort	LldpLocalPort	Set LLDP Local Port Configurations

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 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.

Table Continued

HTTP Method	Resource	Request	Response	Description
GET	.../ports/{Port.id}	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	QosPolicy	QosPolicy	Adds the given QoS Policy to the model.

Table Continued

HTTP Method	Resource	Request	Response	Description
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}	N/A	N/A	Deletes the QoS Policy Action with the given ID from the model.

Table Continued

HTTP Method	Resource	Request	Response	Description
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	QoSTrafficClass	CommonElementList	Returns the list of QoS Class Match elements matching the given query.
POST	.../qos/traffic-classes/{QoSClassMatch.traffic_class_id}/matches			

Table Continued

HTTP Method	Resource	Request	Response	Description
		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 RestSessionIdleTimeout

HTTP Method	Resource	Request	Response	Description
GET	.../rest/v1/session-idle-timeout	N/A	RestSessionIdleTimeout	Returns the Management User matching the given ID.

Table Continued

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

Service System

HTTP Method	Resource	Request	Response	Description
GET	.../system	N/A	SystemAttributes	Returns the host system attributes.
PUT	.../system	SystemAttributes	SystemAttributes	Updates the host system attributes.
POST	.../system/reboot	RebootCommand	N/A	Triggers a system reboot based on the given parameters.
GET	.../system/status	N/A	SystemInfoStats	Returns the status of the host system.
GET	.../system/status/cpu	N/A	SystemCpuStats	Returns the CPU status of the host system (no sampling info).
GET	.../system/status/memory	N/A	SystemMemoryStats	Returns the memory status of the host system (no sampling info).

Table Continued

HTTP Method	Resource	Request	Response	Description
GET	.../system/status/storage	N/A	SystemStorageStats	Returns the memory storage of the host system (no sampling info).
GET	.../system/status/time	N/A	SystemTimeStats	Returns the time status of the host system.
GET	.../system/time	N/A	SystemTime	Returns the host system time configuration.
PUT	.../system/time	SystemTime	SystemTime	Updates the host system time configuration.
POST	.../system/time/server/swap	ListElementSwapCommand	N/A	Triggers a swap of time server entries based on the given parameters which effectively changes the order on which time servers are contacted.
POST	.../system/time/set-manually	SetSystemDateTimeCommand	N/A	Sets the system date/time based on the given parameters.

Service TraceRoute

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

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			
		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 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.

Service Accounting

HTTP Method	Resource	Request	Response	Description
GET	../accounting			
		N/A	WiredElementList	Returns the list of Accounting methods.
POST	../accounting			
		Accounting	Accounting	Adds the given Accounting method to the model.
GET	../accounting/{Accounting.type}			
		N/A	Accounting	Returns the Accounting method with the type configured on the system.
PUT	../accounting/{Accounting.type}			
		Accounting	Accounting	Updates the given Accounting method with the type in the model.
DELETE	../accounting/{Accounting.type}			
		N/A	N/A	Deletes the Accounting method with the type from the model.

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.
GET	.../ports-access-groups/{AclPortPolicy.port_id}-{AclPortPolicy.acl_id}-{AclPortPolicy.direction}/stats			
		N/A	AclPortPolicyStats	Returns the ACL statistics for given ACL ID, Port, and Direction

Service AclVlan

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			
		AclVlanPolicy	AclVlanPolicy	Adds the given ACL VLAN Policy to the model.

Table Continued

HTTP Method	Resource	Request	Response	Description
DELETE	.../vlans-access-groups/{AclVlanPolicy.vlan_id}-{AclVlanPolicy.acl_id}- {AclVlanPolicy.direction}	N/A	N/A	Deletes the ACL VLAN Policy with the given ID from the model.
GET	.../vlans-access-groups/{AclVlanPolicy.vlan_id}-{AclVlanPolicy.acl_id}- {AclVlanPolicy.direction}/stats	N/A	AclVlanPolicyStats	Returns the ACL statistics for given ACL ID, VLAN, and Direction

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 Authentication Attributes in the model.

Service Authorization

HTTP Method	Resource	Request	Response	Description
GET	.../authorization	N/A	WiredElementList	Returns the list of Authorization methods.
POST	.../authorization			

Table Continued

HTTP Method	Resource	Request	Response	Description
		Authorization	Authorization	Adds the given Authorization method to the model.
GET	.../authorization/{Authorization.type}	N/A	Authorization	Returns the Authorization method with the type configured on the system.
PUT	.../authorization/{Authorization.type}	Authorization	Authorization	Updates the given Authorization method with the type in the model.
DELETE	.../authorization/{Authorization.type}	N/A	N/A	Deletes the Authorization method with the type from the model.

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.

Service DhcpRelayVlan

HTTP Method	Resource	Request	Response	Description
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 DhcpServerPool

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

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 Dot1xAuthenticatorPort

HTTP Method	Resource	Request	Response	Description
GET	.../dot1x/authenticator			
		N/A	WiredElementList	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}			
		Dot1xAuthenticatorPort	Dot1xAuthenticatorPort	Updates the given 802.1X Authenticator Port in the model.

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 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.

Service Igmp

HTTP Method	Resource	Request	Response	Description
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			

Table Continued

HTTP Method	Resource	Request	Response	Description
		N/A	VlanIgmpp	Returns the VLAN IGMP matching the given ID.
PUT	.../vlans/{VlanIgmpp.vlan_id}/igmp	VlanIgmpp	VlanIgmpp	Updates the given VLAN IGMP in the model.
GET	.../vlans/{VlanIgmpp.vlan_id}/igmp/stats	N/A	VlanIgmppStats	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 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

Table Continued

HTTP Method	Resource	Request	Response	Description
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	LocatorLedBlink Command	LocatorLedBlink CommandResult	Triggers a locator led blink based on the given parameters.

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.
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 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			
		N/A	Oobm	Returns the OOBM settings.
PUT	.../oobm			
		Oobm	Oobm	Updates the OOBM settings.

Table Continued

HTTP Method	Resource	Request	Response	Description
GET	.../oobm/interface	N/A	OobmInterface	Returns the OOBM Interface settings.
PUT	.../oobm/interface	OobmInterface	OobmInterface	Updates the OOBM Interface settings.
GET	.../oobm/interface/stats	N/A	OobmInterfaceStats	Returns the OOBM Interface stats.

Service Poe

HTTP Method	Resource	Request	Response	Description
GET	.../poe/ports	N/A	WiredElementList	Returns the list of Port PoE elements matching the given query.
GET	.../poe/ports/stats	N/A	WiredElementList	Returns the list of Port PoE Stats elements matching the given query.
GET	.../poe/slots	N/A	WiredElementList	Returns the list of Slot PoE elements matching the given query.
GET	.../ports/{PortPoe.port_id}/poe	N/A	PortPoe	Returns the Port PoE matching the given ID.

Table Continued

HTTP Method	Resource	Request	Response	Description
PUT	.../ports/{PortPoe.port_id}/poe	PortPoe	PortPoe	Updates the given Port PoE in the model.
GET	.../ports/{PortPoe.port_id}/poe/stats	N/A	PortPoeStats	Returns the Port PoE stats matching the given ID.
GET	.../slots/{SlotPoe.slot_name}/poe	N/A	SlotPoe	Returns the Slot PoE matching the given ID.
PUT	.../slots/{SlotPoe.slot_name}/poe	SlotPoe	SlotPoe	Updates the given Slot PoE(no sampling info).
GET	.../slots/{SlotPoeStats.slot_name}/poe/stats	N/A	SlotPoeStats	Returns the Slot PoE stats matching the given Slot ID.
GET	.../slots/poe/stats	N/A	WiredElementList	Returns the list of Slot PoE Stats elements matching the given query.
GET	.../system/status/power/consumption	N/A	WiredElementList	Returns the Power-Consumption status of the host system (no sampling info). Applicable only for Bolt platform.

Table Continued

HTTP Method	Resource	Request	Response	Description
GET	.../system/status/power/supply	N/A	WiredElementList	Returns the Power-Supply status of the host system (no sampling info).

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 QosPort

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

HTTP Method	Resource	Request	Response	Description
GET	.../qos/vlans-policies			
		WiredCollection Query	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.

Table Continued

HTTP Method	Resource	Request	Response	Description
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 RedundancyManagement

HTTP Method	Resource	Request	Response	Description
GET	.../redundancy-management	N/A	RedundancyManagement	Returns the Redundancy Management settings.
PUT	.../redundancy-management	RedundancyManagement	RedundancyManagement	Updates the Redundancy Management settings.
GET	.../redundancy-management/stats	N/A	RedundancyManagementStatsTable	Returns the Redundancy Management stats.
POST	.../redundancy-management/switchover	N/A	N/A	Triggers a redundancy switchover.

Service SwitchSystem

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

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			

Table Continued

HTTP Method	Resource	Request	Response	Description
		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;

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

Hewlett Packard Enterprise Support Center: Software downloads

www.hpe.com/support/downloads

Software Depot

www.hpe.com/support/softwaredepot

- To subscribe to eNewsletters and alerts:

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:

www.hpe.com/support/AccessToSupportMaterials



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
HPE Proactive Care services	www.hpe.com/services/proactivecare
HPE Proactive Care service: Supported products list	www.hpe.com/services/proactivecaresupportedproducts
HPE Proactive Care advanced service: Supported products list	www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information

Proactive Care central	www.hpe.com/services/proactivecarecentral
Proactive Care service activation	www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

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

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional warranty information

HPE ProLiant and x86 Servers and Options	www.hpe.com/support/ProLiantServers-Warranties
HPE Enterprise Servers	www.hpe.com/support/EnterpriseServers-Warranties
HPE Storage Products	www.hpe.com/support/Storage-Warranties
HPE Networking Products	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

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

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

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

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