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Network OS

REST API Guide

Supporting Network OS 7.0.0

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Preface

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Document conventions

The document conventions describe text formatting conventions, command syntax conventions, and important notice formats used in Brocade technical documentation.

Text formatting conventions

Text formatting conventions such as boldface, italic, or Courier font may be used in the flow of the text to highlight specific words or phrases.

Format	Description
bold text	Identifies command names Identifies keywords and operands Identifies the names of user-manipulated GUI elements Identifies text to enter at the GUI
<i>italic text</i>	Identifies emphasis Identifies variables Identifies document titles
Courier font	Identifies CLI output Identifies command syntax examples

Command syntax conventions

Bold and italic text identify command syntax components. Delimiters and operators define groupings of parameters and their logical relationships.

Convention	Description
bold text	Identifies command names, keywords, and command options.
<i>italic text</i>	Identifies a variable.
value	In Fibre Channel products, a fixed value provided as input to a command option is printed in plain text, for example, -show WWN.

Convention	Description
[]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options. In Fibre Channel products, square brackets may be used instead for this purpose.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, for example, passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, member[member...].
\	Indicates a “soft” line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

Notes, cautions, and warnings

Notes, cautions, and warning statements may be used in this document. They are listed in the order of increasing severity of potential hazards.

NOTE

A Note provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

ATTENTION

An Attention statement indicates a stronger note, for example, to alert you when traffic might be interrupted or the device might reboot.



CAUTION

A Caution statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.



DANGER

A Danger statement indicates conditions or situations that can be potentially lethal or extremely hazardous to you. Safety labels are also attached directly to products to warn of these conditions or situations.

Brocade resources

Visit the Brocade website to locate related documentation for your product and additional Brocade resources.

You can download additional publications supporting your product at www.brocade.com. Select the Brocade Products tab to locate your product, then click the Brocade product name or image to open the individual product page. The user manuals are available in the resources module at the bottom of the page under the Documentation category.

To get up-to-the-minute information on Brocade products and resources, go to [MyBrocade](#). You can register at no cost to obtain a user ID and password.

Release notes are available on [MyBrocade](#) under Product Downloads.

White papers, online demonstrations, and data sheets are available through the [Brocade website](#).

Contacting Brocade Technical Support

As a Brocade customer, you can contact Brocade Technical Support 24x7 online, by telephone, or by e-mail. Brocade OEM customers contact their OEM/Solutions provider.

Brocade customers

For product support information and the latest information on contacting the Technical Assistance Center, go to <http://www.brocade.com/services-support/index.html>.

If you have purchased Brocade product support directly from Brocade, use one of the following methods to contact the Brocade Technical Assistance Center 24x7.

Online	Telephone	E-mail
<p>Preferred method of contact for non urgent issues:</p> <ul style="list-style-type: none"> • My Cases through MyBrocade • Software downloads and licensing tools • Knowledge Base 	<p>Required for Sev 1-Critical and Sev 2-High issues:</p> <ul style="list-style-type: none"> • Continental US: 1-800-752-8061 • Europe, Middle East, Africa, and Asia Pacific: +800-AT FIBREE (+800 28 34 27 33) • For areas unable to access toll free number: +1-408-333-6061 • Toll-free numbers are available in many countries. 	<p>support@brocade.com</p> <p>Please include:</p> <ul style="list-style-type: none"> • Problem summary • Serial number • Installation details • Environment description

Brocade OEM customers

If you have purchased Brocade product support from a Brocade OEM/Solution Provider, contact your OEM/Solution Provider for all of your product support needs.

- OEM/Solution Providers are trained and certified by Brocade to support Brocade® products.
- Brocade provides backline support for issues that cannot be resolved by the OEM/Solution Provider.
- Brocade Supplemental Support augments your existing OEM support contract, providing direct access to Brocade expertise. For more information, contact Brocade or your OEM.
- For questions regarding service levels and response times, contact your OEM/Solution Provider.

Document feedback

To send feedback and report errors in the documentation you can use the feedback form posted with the document or you can e-mail the documentation team.

Quality is our first concern at Brocade and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you. You can provide feedback in two ways:

- Through the online feedback form in the HTML documents posted on www.brocade.com.
- By sending your feedback to documentation@brocade.com.

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

About This Document

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How this document is organized

This document is organized to help you find the information that you want as quickly and easily as possible.

The document contains the following components:

- [Chapter 1, “Overview of the Network OS REST API,”](#) provides a high-level overview of the API.
- [Chapter 2, “Using the Brocade Network OS REST API,”](#) explains how to use the API.
- [Chapter 3, “Use Cases,”](#) explains the operations in the API with examples.
- [Chapter 4, “API Reference,”](#) describes the calls supported by the API.

Supported hardware and software

In those instances in which procedures or parts of procedures documented here apply to some switches but not to others, this guide identifies exactly which switches are supported and which are not.

Although many different software and hardware configurations are tested and supported by Brocade Communications Systems, Inc. for Network OS, documenting all possible configurations and scenarios is beyond the scope of this document.

The following hardware platforms are supported by this release of Network OS:

- Brocade VDX 2741
- Brocade VDX 2746
- Brocade VDX 6740
 - Brocade VDX 6740-48
 - Brocade VDX 6740-64
- Brocade VDX 6740T
 - Brocade VDX 6740T-48
 - Brocade VDX 6740T-64

- Brocade VDX 6740T-1G
- Brocade VDX 6940-36Q
- Brocade VDX 6940-144S
- Brocade VDX 8770
 - Brocade VDX 8770-4
 - Brocade VDX 8770-8

To obtain information about a Network OS version other than this release, refer to the documentation specific to that version.

What's new in this document

This document is released in conjunction with Network OS 7.0.0.

New API

- Configuration APIs
 - interface/{interface-type}/{interface-name}/ip/unnumbered
 - interface/{interface-type}/{interface-name}/snmp
 - interface/vlan/{vlan-number}/suppress-arp
 - interface/vlan/{vlan-number}/suppress-nd
 - interface/port-channel/{port-channel-number}/esi
 - interface/port-channel/{port-channel-number}/ip/address
 - interface/port-channel/{port-channel-number}/ipv6/address
 - interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/anycast
 - interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/eui64
 - interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/link-local
 - interface/port-channel/{port-channel-number}/ipv6/address/use-link-local-only
 - ovsdb-server
 - rbridge-id/{rbridge-number}/bfd-session-setup-delay
 - bridge-id/{rbridge-number}/evpn-instance
 - rbridge-id/{rbridge-number}/host-table
 - rbridge-id/{rbridge-number}/ip/anycast-gateway-mac
 - rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac
 - rbridge-id/{rbridge-number}/system-mode
 - snmp-server/mib
 - vlag-commit-mode
- Operational APIs
 - show-fabric-trunk-info

Modified APIs

- Configuration APIs

- interface/{interface-type}/{interface-name}/fabric - The API call was modified to include the new URI:
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/dport/mode
- interface/{interface-type}/{interface-name}/ip/arp - The API call was modified to include the parameter *learn-any*
- interface/{interface-type}/{interface-name}/ip/igmp - The API call was modified to include the parameters *last-member-query-count*, *startup-query-count*, *robustness-variable*, and *startup-query-interval*
- ldap-server/host - The API call was modified to include the parameter *use-vrf*.
- logging/syslog-server - The API call was modified to include the parameter *use-vrf*.
- overlay-gateway - This API call was modified to deprecate the **nsx** keyword and replace it with the **hardware-vtep** keyword, supporting both NSX Controller and OpenStack deployments
- radius-server - The API call was modified to include the parameter *use-vrf*.
- rbridge-id - The API call was modified to include the new URIs:
<base_URI>/config/running/rbridge-id/{rbridge-number}/evpn-instance
<base_URI>/config/running/rbridge-id/{rbridge-number}/host-table
<base_URI>/config/running/rbridge-id/{rbridge-number}/bfd-session-setup-delay
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-mode
- rbridge-id/{rbridge-number}/interface - The API call was modified to include the new URI
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/snmp.
- rbridge-id/{rbridge-number}/ip - The API call was modified to include new URI:
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/anycast-gateway-mac
- rbridge-id/{rbridge-number}/ipv6 - The API call was modified to include new URI:
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac
- rbridge-id/{rbridge-number}/maps - The API call was modified to include new URIs:
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/policy
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/policy and
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/rule
- rbridge-id/{rbridge-number}/router/bgp - The API call was modified to add the new URI:
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp/address-family/Ipv4. The API call was modified to include the parameter *auto-shutdown-new-neighbors*. The API call was modified to include the parameter *activate* under
rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor. The API call was modified to include the parameter *additional-paths* under
rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/capability. The API call was modified to include the parameter *advertise* under
rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/additional-paths/advertise. The API call was modified to include the parameter *route-reflector-client* under
rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor
- rbridge-id/{rbridge-number}/router/pim - The API call was modified to include the parameter *reset-tracking-bit*
- rbridge-id/{rbridge-number}/router/ospf - The API call was modified to include the new URI:
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf/area/{area-id}/prefix-list

- rbridge-id/{rbridge-number}/snmp-server - The API call was modified to include the parameter *offline-if enable*.
- snmp-server - The API was modified to include new URI:
<base_URI>/config/running/snmp-server/mib
- tacacs-server - The API call was modified to include the parameter *use-vrf*

Overview of the Network OS REST API

In this chapter

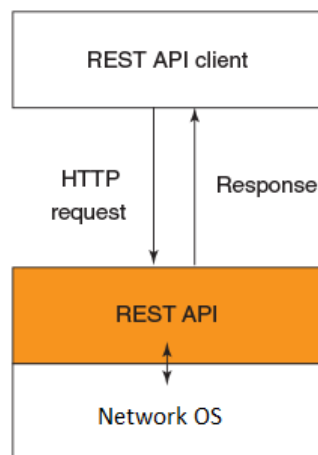
- Network OS REST API 1
- Resources 1
- Protocol support 3
- URIs 4

Network OS REST API

REST web service is the northbound interface to the Network OS platform, used to manage the nodes across the cluster. It supports all Create, Read, Update, and Delete (CRUD) operations on the configuration data and supports the YANG-RPC commands. REST service-based manageability is supported in two modes: Fabric cluster and Logical chassis cluster

REST web service leverages HTTP, and uses its standard methods to perform the operations on the resources. Apache web server embedded in the VDX switches is used to serve the REST API to the clients.

FIGURE 1 Network OS REST API architecture



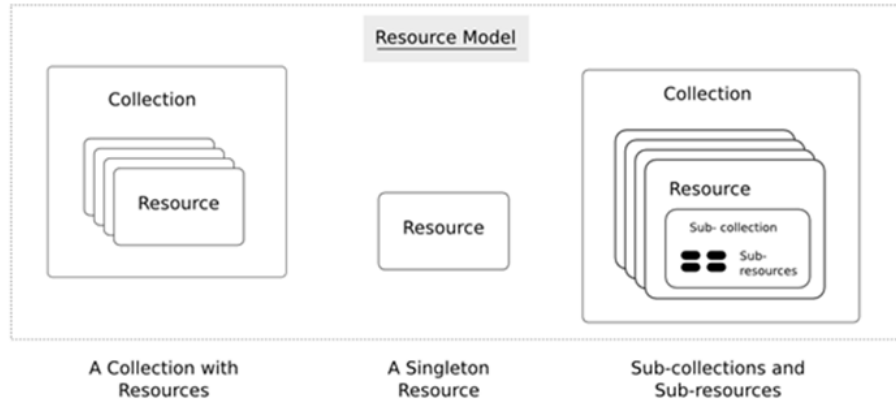
Resources

A resource is an object with a type, associated data, relationships to other resources, and a set of methods that operate on it. Only a few standard methods are defined for the resource corresponding to the standard HTTP, such as GET, HEAD, OPTIONS, POST, PUT, PATCH, and DELETE.

Resources can be grouped into collections (in the YANG model, it is represented as a "List" statement). Each collection is homogeneous (it contains only one type of resource) and unordered.

Resources can also exist outside any collection. These resources are known as singleton resources (in the YANG model, it is represented as a "Container" statement). Collections are resources themselves. For example, resources defined in the YANG model are physical interface, port-channel, VLAN, switchport, access-list, and so on. The following figure describes the resource model.

FIGURE 2 Resource model



Base resource, Configuration resource and YANG-RPC Operations resource are the three types of resources that are supported to represent the configuration data and YANG-RPC operations

Base resource

The base resource represents the high-level resources in the system, and is categorized under the media type "application/vnd.base.resource+xml".

The entry point container in the resource model is "/rest", and all fields and sub-resources with the same resource type are defined in the namespace "http://brocade.com/ns/rest".

The base resource consists of Configuration resource (/config) and YANG-RPC Operations resource (/operational-state) as first-level child resources.

Configuration resource (/rest/config)

The /rest/config resource represents the configuration resource. The URI `http://host:80/rest/config` is used to identify the configuration resource and retrieves the supported configuration datastore as its first-level child resource. The type of datastore is:

Running configuration datastore - The URI is `<BASE-URI>/config/running`. This identifies the "running configuration" resources.

YANG-RPC Operations resource (/rest/operational-state)

The YANG-RPC Operations resource represents the RPC commands defined in the YANG model using the YANG-RPC statement. The child resources /get-arp, /get-vlan-brief and /get-interface-detail are supported.

To access or manipulate the operational resource, the request should be issued with the POST method, and should contain the payload, even if there is no input to the request. The request should contain an empty payload, even if there are no input request parameters.

Relationship of YANG and resource data models

The resource data model is based on the YANG data model. All top-level containment statements, such as "List" and "Container," present in the YANG data model are the resources, with few exceptions.

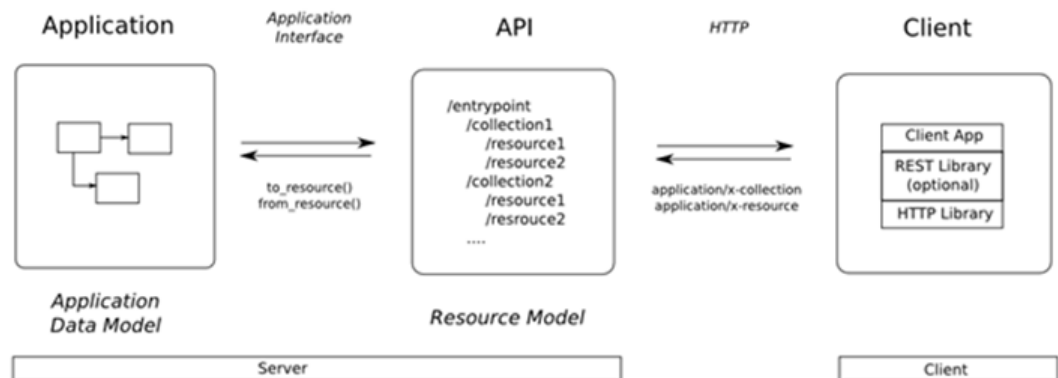
List: A "List" statement is a collection of resources that contains the same type of resources, which are ordered; the entries, such as the "Container" statement inside the "List" statement, are also a resource.

Container: A "Container" statement in the YANG model is represented as singleton resource, or a group of resources of different types.

Leaf: "Leaf" statements inside the "List" or "Container" resource are the attributes of the resources. A "Leaf" is a sub-resource of the "List" or "Container." That is, it cannot be identified without either the "List" or "Container" resource.

The following diagram shows the relationship of the YANG and resource data models.

FIGURE 3 YANG and Resource data model relationship



NOTE

API payload uses the *alt-name* and *cli-drop-node-name*. So when constructing the payloads, you need to check the YANG modules and use the *alt-name* and *cli-drop-node-name* if they are available.

Protocol support

The Network OS REST API supports HTTP.

By default, the HTTP port number is 80.

URIs

A Uniform Resource Identifier (URI) is a link to the resource. The URI is used to identify the resource. It is the only means for clients and servers to exchange the representations.

URIs consists of two parts:

Base URI: The base URI is specific to the Network OS server. All URIs accessing the same server use the same base URI.

Request URI: The request URI is the URI used to perform a GET, POST, PUT, PATCH, DELETE, HEAD or OPTIONS request.

In the following examples of Network OS API URIs, the text in bold is the base URI and the remaining portion is the request URI:

http://10.20.234.122:80/rest/config/running/fabric

NOTE

URIs are case-sensitive.

URI structure

The hierarchical structure of the URI is to support the containment based on the resources defined in the YANG model using the statement "List" and "Container".

The URI path conveys a resource model that is similar to the YANG model, with each forward slash-separated path segment corresponding to a unique resource within the model's hierarchy (using the following syntax: <BASE-URI>/path1/path2/{key}/path3/...).

For example, the URI "/rest/config/running/interface/tengigabitethernet" identifies the collection of tengigabitethernet interfaces as target resources. In this example, from the path element.../interface onwards it represents the YANG model.

rest - The entry point

config - Represents the configuration datastore resource

running - Represents the running configuration datastore

interface - Represents all interfaces present in the running configuration

tengigabitethernet - Represents all the tengigabitethernet interfaces present in the running configuration

Similarly, the URI "/rest/config/running/interface/vlan/100" identifies the VLAN resource containing the VLAN ID 100.

URL encoding

1. Key contains forward slash "/" present in the URI will be surrounded with double quotes and the double quotes will be encoded as "%22".
2. Comma (,) will be added to mention more than one key in the URI, and the same will be encoded as "%2C".

Base URI

The base URI `http://host:port/rest/` is the entry point to access and manage all the resources defined in the system. The port is the default HTTP port (80). It is used to identify the base resource, and retrieves its first-level child resources of the base resource.

NOTE

A leaf attribute can also be present in the URI to identify the exact resource. For example, the URI `http://host:port/rest/config/running/interface/port-channel/<po-id>/switch-port` is used to identify the switch-port resource of the port-channel.

Top-level URIs

The URI identifies its first-level resource in its hierarchy with the given media type in its request; as shown in the following examples:

`http://<Base URI>/config/running` - To access the running configuration resources.

`http://<Base URI>/operational-state` - To access the YANG-RPC operation resources.

1 URIs

Using the Brocade Network OS REST API

In this chapter

- [Before you begin](#) 7
- [Logging in and out](#) 7
- [Supported operations](#) 7
- [XML resource representation](#) 12
- [Media types](#) 13
- [HTTP header](#) 13
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Before you begin

Before you can use the Brocade Network OS REST API:

Obtain a user name and password for accessing Network OS through the REST API.

Logging in and out

You can log in to the device by entering the user name and password or the session ID provided by the switch after authenticating the initial request from the client.

If the authentication is successful, the response header “Authentication-Token” is sent to the client. From then, client applications can use this token and send it to the server for the authentication for further access to the server by using the same persistent connection. (The client applications use this token to obtain further access to the server using the persistent connection)

To log out from the device, you must delete the session created using the DELETE operation. The URI is `http://host:port/rest/session/<session-id>`.

Supported operations

All create, read, update, and delete (CRUD) operations are supported and performed by using the standard HTTP methods: GET, POST, PUT, PATCH, DELETE, HEAD, and OPTIONS.

GET

This GET method is used to retrieve the representation of the resource (for example, base, configuration) including the metadata information.

2 Supported operations

For example, the following GET method requests the client to retrieve the LDAP server.

```
GET /rest/config/running/ldap-server HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7NSS/3.12.9.0
zlib/1.2.3 libidn/1.18 libssh2/1.2.2
Host: 192.168.10.2
Accept: application/vnd.configuration.resource+xml
Resource-Depth:2
```

The following response contains XML representation of the target resource.

```
HTTP/1.1 200 OK
Date: 2014-06-24 10:31:15
Server: NOS Wave WWW
Cache-control: private, no-cache, must-revalidate, proxy-revalidate
Content-Type: application/vnd.configuration.resource+xml
Content-Length: 705
Connection: close

<ldap-server xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ldap-server">
  <host y:self="/rest/config/running/ldap-server/host/inetaddress">
    <hostname>inetaddress</hostname>
    <port>400</port>
    <retries>6</retries>
    <timeout>10</timeout>
    <basedn>test</basedn>
  </host>
  <host y:self="/rest/config/running/ldap-server/host/test">
    <hostname>test</hostname>
  </host>
  <maprole y:self="/rest/config/running/ldap-server/maprole">
    <group y:self="/rest/config/running/ldap-server/maprole/group/administrator">
      <ad-group>administrator</ad-group>
      <role>admin</role>
    </group>
  </maprole>
</ldap-server>
```

NOTE

A request payload is not required for a GET operation.

POST

The POST method is used to create a new resource in the specific resource location identified by the URI specified in the given request, and is used to identify YANG-RPC operation resources. The URI of the newly created resource is mentioned in the "Location" header of the response.

The following example shows the POST request to add a new LDAP server.

Request header

```
POST /rest/config/running/ldap-server HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7 NSS/3.12.9.0
zlib/1.2.3 libidn/1.18 libssh2/1.2.2
Host: 192.168.10.2
Accept: application/vnd.configuration.resource+xml
```

Content-Length: 51

Request message body

```
<host>
  <hostname>LDAP_TEST_HOST</hostname>
</host>
```

On successful creation, the response contains an empty message body and the following headers with status.

Response

```
HTTP/1.1 100 Continue
HTTP/1.1 201 Created
Date: Tue, 24 Jun 2014 10:38:15 GMT
Server: NOS Wave WWW
Location: http://192.168.10.2/rest/config/running/ldap-server/host/test_API
Cache-control: private, no-cache, must-revalidate, proxy-revalidate
Content-Length: 0
Content-Type: text/html
```

NOTE

A request payload is required for a POST operation.

PUT

The PUT method is used to update or replace an existing "Container" resource completely. If the URI does not identify the resource to be replaced, then the resource in the request URI is newly created, and the URI of the newly created resource is mentioned in the "Location" header of the response.

This method creates the new resource, instead of replacing it, if the targeted resource is defined as a "List" statement in the YANG model.

The following example shows the PUT request to set the Active Directory parameters.

Request header

```
PUT /rest/config/running/ldap-server/host HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7 NSS/3.12.9.0
zlib/1.2.3 libidn/1.18 libssh2/1.2.2
Host: 10.20.234.122
Accept: application/vnd.configuration.resource+xml
Content-Length: 165
```

Request message body

```
<host>
  <port>500</port>
  <retries>50</retries>
  <timeout>60</timeout>
  <basedn>sample</basedn>
</host>
```

On successful replace, the response contains an empty message body and the following headers with status.

2 Supported operations

Response

```
HTTP/1.1 100 Continue
HTTP/1.1 204 No Content
Date: Tue, 24 Jun 2014 11:03:55 GMT
Server: NOS Wave WWW
Cache-control: private, no-cache, must-revalidate, proxy-revalidate
Content-Length: 0
Content-Type: text/html
```

NOTE

A request payload is required for a PUT operation.

PATCH

The PATCH method is used to edit or update the leaf attributes of the resource (List or Container), if the system supports the modification. For example, modifying the leaf or list child resource of the ACL sequence command is not possible, as it is not allowed in the system.

The following example shows the PATCH request to update the Active Directory parameter values.

Request header

```
PATCH /rest/config/running/ldap-server/host/test_API HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7 NSS/3.12.9.0
zlib/1.2.3 libidn/1.18 libssh2/1.2.2
Host: 192.168.10.2
Accept: application/vnd.configuration.resource+xml
Content-Length: 55
```

Request message body

```
<host>
  <basedn>sample_test</basedn>
</host>
```

On successful update of an attribute, the response contains an empty message body and the following headers with status.

Response

```
HTTP/1.1 100 Continue
HTTP/1.1 204 No Content
Date: Tue, 24 Jun 2014 11:15:48 GMT
Server: NOS Wave WWW
Cache-control: private, no-cache, must-revalidate, proxy-revalidate
Content-Length: 0
Content-Type: text/html
```

NOTE

A request payload is required for a PATCH operation.

DELETE

The DELETE method is used to delete the known resource.

The following example shows the DELETE request to delete an existing LDAP server.

Request header

```
DELETE /rest/config/running/ldap-server/host/test_API HTTP/1.1
User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7 NSS/3.12.9.0
zlib/1.2.3 libidn/1.18 libssh2/1.2.2
Host: 192.168.10.2
Accept: */*
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
```

On successful deletion of the resource, the response contains an empty message body and the following headers with status.

Response

```
HTTP/1.1 204 No Content
Date: Tue, 24 Jun 2014 10:50:33 GMT
Server: NOS Wave WWW
Cache-control: private, no-cache, must-revalidate, proxy-revalidate
Content-Length: 0
Content-Type: text/html
```

NOTE

An authorization header is required to perform a DELETE operation.

NOTE

A request payload is not required for a DELETE operation.

HEAD

The HEAD method is used to retrieve the metadata information of the resource, identified by the given request. The response to this operation contains only the headers and an empty response body.

Request header

```
HEAD /rest/config/running/mac/access-list/standard/testacl1 HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
User-Agent: <REST client>
Host: 192.168.10.2:80
Accept: application/vnd.configuration.resource+xml
```

On successful retrieval of the resource, the response contains an empty message body and the following headers with status.

Response

```
HTTP/1.1 200 OK
Server: Wave World Wide Web Server (W4S) v0.0.1
Cache-control: private, no-cache, must-revalidate, proxy-revalidate
Date: Tue, 03 Dec 2013 07:40:43 GMT
Content-Type: application/vnd.configuration.resource+xml
```

NOTE

A request payload is not required for a HEAD operation.

OPTIONS

The OPTIONS method is used to retrieve the allowed methods on the resource identified by the given request. The response to this operation contains the headers and an empty response body. The "Allow" header contains the allowed operations on the resource.

Request header

```
OPTIONS /rest/config/running/mac/access-list/standard/testacl1 HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
User-Agent:<REST client>
Host: 192.168.10.2:80
Accept: application/vnd.configuration.resource+xml
```

Response

```
HTTP/1.1 200 OK
Server: Wave World Wide Web Server (W4S) v0.0.1
Cache-control: private, no-cache, must-revalidate, proxy-revalidate
Date: Tue, 03 Dec 2013 07:40:55 GMT
Content-Length: 0
Content-Type: text/html
Allow: DELETE, GET, HEAD, PATCH, POST, PUT
```

NOTE

A request payload is not required for an OPTIONS operation.

XML resource representation

A resource is represented in XML as an XML element, with an XML attribute "y:self" that contains the URI for the resource. Sub-resources are encoded as sub-elements to the resource element.

Single-valued resource properties are encoded as sub-elements to the resource element, with the value encoded as character data in the sub-element.

In the XML representation, every resource has an XML attribute: y:self="...". In the representation of a list resource, the keys are always present and encoded first. Leafs are properties of the resource.

The following example shows the XML representation of the "reserved-vlan" resource.

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list"
xmlns:y="urn:brocade.com:mgmt:brocade-mac-access-list" y:self="/rest/
config/mac">
  <access-list y:self="/rest/config/running/mac/access-list">
    <standard y:self="/rest/config/running/mac/access-list/standard/stdmac">
      <name>stdmac</name>
    </standard>
  </access-list>
</mac>
```


Media types

Media types identify the form of the data contained within a resource representation. Media type is an application-specific format with a well-defined name represented in the form of an identifier. Media types are specified in the Accept and Content-Type header's value for the request and the response respectively.

Media types are specific to resources, allowing them to change independently and support formats that other resources do not.

TABLE 1 Media types

Media type	Resources
application/vnd.base.resource+xml	Represents the high-level base resources such as configuration datastore and operational state resource
application/vnd.configuration.resource+xml	Represents resources defined for the configuration command derived from a YANG module
application/vnd.operational-state.resource+xml	Represents the defined YANG-RPC operations

HTTP header

HTTP header fields are components of the message header of a request and response in HTTP. They define the operating parameters and are name/value pairs that appear in both request and response messages. The name of the header is separated from the value by a single colon.

The following table contains the supported HTTP methods for the media types.

TABLE 2 Methods and supported media types

Method	Media types
HEAD	All
OPTIONS	All
GET	All
POST	application/vnd.configuration.resource+xml application/vnd.operational-state.resource+xml
PUT	application/vnd.configuration.resource+xml
PATCH	application/vnd.configuration.resource+xml
DELETE	application/vnd.configuration.resource+xml

Request header

Standard request header - The following table contains the supported standard request headers.

TABLE 3 Standard HTTP request header

Standard HTTP header
Cache-Control
Date
Authorization

TABLE 3 Standard HTTP request header (Continued)

Standard HTTP header
Accept-Charset
Accept-Encoding
Accept-Language
Connection
Host
Accept
User-Agent
Content-Length

NOTE

All Brocade Network OS REST API requests that return data support only XML format.

Custom request header - The following headers are supported to facilitate the retrieval, datastore information, and API versioning.

TABLE 4 Header details

Header name	Description	Header value; Methods; Media types
Resource-Depth	Used in the client request to inform the server to retrieve the nested child resources in the same response as inline.	Header value: <1..max> Methods: GET Media types: All, except application/vnd.operational-state.resource+xml

Response headers

Standard response header - The following table contains the supported standard response headers.

TABLE 5 HTTP response header

Response header
Allow
Cache-Control
Connection
Content-Encoding
Content-Language
Content-Length
Content-Location
Content-Type
Note: All Brocade Network OS REST API requests that return data support only XML format.
Date
Location

TABLE 5 HTTP response header (Continued)

Response header
Server
Status
WWW-Authenticate
Transfer-Encoding

HTTP status code and messages

Both success and error status are reported to the client byway of the HTTP Status-Line, which contains the HTTP status code. The application-specific error messages are similar to the CLI error messages.

TABLE 6 HTTP status code

Status-Line	Description
100 Continue	POST is accepted, 201 should follow
200 OK	Success with response body
201 Created	POST to create a resource success
202 Accepted	POST to create a resource accepted
204 No Content	Success without response body
400 Bad Request	Invalid request message
403 Forbidden	Access to resource denied
404 Not Found	Resource target or resource node not found
405 Method Not Allowed	Method not allowed for target resource
413 Request Entity Too Large	Too-big error
414 Request-URI Too Large	Too-big error
415 Unsupported Media	Not supported media type
500 Internal Server Error	Operation failed. Note: In this case, the response body will contain the application's specific error message.
501 Not Implemented	Unknown operation
503 Service Unavailable	Recoverable server error

2 HTTP status code and messages

Use Cases

In this chapter

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- [LDAP server configuration](#) 17
- [ACL configuration](#) 21

Sample use cases for Network OS REST API

This chapter discusses common use cases for the Brocade Network OS REST API.

NOTE

The information provided in this chapter may not cover the end-to-end configuration. Refer to the *Network OS Administrator's Guide* for the complete set of configuration tasks.

LDAP server configuration

Lightweight Directory Access Protocol (LDAP) is an open-source protocol for accessing distributed directory services that act in accordance with X.500 data and service models. LDAP assumes that one or more servers jointly provide access to a Directory Information Tree (DIT) where data is stored and organized as entries in a hierarchical fashion. Each entry has a name called the distinguished name that uniquely identifies it. LDAP can also be used for centralized authentication through directory service.

Active Directory (AD) is a directory service which supports a number of standardized protocols such as LDAP, Kerberos authentication, and DNS, to provide various network services. AD uses a structured datastore as the basis for a logical, hierarchical organization of directory information. AD includes user profiles and groups as the part of directory information, so it can be used as a centralized database for authenticating the third-party resources.

If you are in logical chassis cluster mode, the configuration is applied to all nodes in the cluster.

NOTE

The complete configuration is not given here. Refer to the *Network OS Administrator's guide* for the complete configuration tasks.

Configuring LDAP

Configuring support for LDAP requires configuring both the client and the server. This section shows how to configure an Active Directory server on the client side.

You can use the REST API to carry out the configuration.

Adding an LDAP server

1. Establish a REST session with Network OS.
2. Create the add_server.xml file with the payload information consisting of the name of the LDAP server host. For the complete schema, refer to the GET operation example in the “[ldap-server](#)” section.
3. Perform the POST operation by calling the following URI.

<BASE_URI>/config/running/ldap-server

Sample request payload

```
<host>
  <hostname>test_ACL</hostname>
</host>
```

Sample response header

The following example shows the response header of a successful operation.

```
< HTTP/1.1 100 Continue
< HTTP/1.1 201 Created
< Date: Tue, 24 Jun 2014 10:38:15 GMT
< Server: NOS Wave WWW
< Location: http://192.168.10.2/rest/config/running/ldap-server/host/test_API
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Length: 0
< Content-Type: text/html
< Connection: close
```

There is no response body in the case of a POST operation.

Setting the Active Directory parameters for the newly created server

1. Establish a REST session with Network OS.
2. Create the set_ad_params.xml file with the payload information consisting of the Active Directory parameters that you want to configure, For the complete schema, refer to the GET operation example in the “[ldap-server](#)” section.
3. Perform the PUT operation by calling the following URI.

<BASE_URI>/config/running/ldap-server/host/test_API

Sample request payload

```
<host>
  <port>500</port>
  <retries>50</retries>
  <timeout>60</timeout>
  <basedn>sample</basedn>
</host>
```

Sample response header

The following example shows the response header of a successful operation.

```
< HTTP/1.1 100 Continue
< HTTP/1.1 204 No Content
< Date: Tue, 24 Jun 2014 11:03:55 GMT
< Server: NOS Wave WWW
```

```
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Length: 0
< Content-Type: text/html
< Connection: close
```

There is no response body in the case of a PUT operation.

Retrieving the LDAP server information

1. Establish a REST session with Network OS.
2. Perform the GET operation by calling the following URI.

```
<BASE_URI>/config/running/ldap-server
```

There is no request payload for a GET operation.

Sample response header

The following example shows the response header of a successful operation.

```
< HTTP/1.1 200 OK
< Date: 2014-06-24 11:16:07
< Server: NOS Wave WWW
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Type: application/vnd.configuration.resource+xml
< Content-Length: 924
< Connection: close
```

Sample response body

```
<ldap-server xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/ldap-server">
  <host y:self="/rest/config/running/ldap-server/host/inetaddress">
    <hostname>inetaddress</hostname>
    <port>500</port>
    <retries>50</retries>
    <timeout>60</timeout>
    <basedn>sample</basedn>
  </host>
  <host y:self="/rest/config/running/ldap-server/host/test">
    <hostname>test</hostname>
  </host>
  <host y:self="/rest/config/running/ldap-server/host/test_API">
    <hostname>test_API</hostname>
    <port>500</port>
    <retries>50</retries>
    <timeout>60</timeout>
    <basedn>sample_test</basedn>
  </host>
  <maprole y:self="/rest/config/running/ldap-server/maprole">
    <group
y:self="/rest/config/running/ldap-server/maprole/group/administrator">
      <ad-group>administrator</ad-group>
      <role>admin</role>
    </group>
  </maprole>
</ldap-server>
```

Updating the Active Directory parameter values

1. Establish a REST session with Network OS.
2. Create the update_ad_params.xml file with the payload information consisting of the Active Directory parameters that you want to configure, For the complete schema, refer to the GET operation example in the “[ldap-server](#)” section.
3. Perform the PATCH operation by calling the following URI.

<BASE_URI>/config/running/ldap-server/host/test_API

Sample request payload

```
<host>
  <basedn>sample_test</basedn>
</host>
```

Sample response header

The following example shows the response header of a successful operation.

```
< HTTP/1.1 100 Continue
< HTTP/1.1 204 No Content
< Date: Tue, 24 Jun 2014 11:15:48 GMT
< Server: NOS Wave WWW
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Length: 0
< Content-Type: text/html
< Connection: close
```

There is no response body in the case of a PATCH operation.

Removing an LDAP server

1. Establish a REST session with Network OS.
2. Perform the DELETE operation by calling the following URI (test_API is the name of the LDAP server that you want to delete).

<BASE_URI>/config/running/ldap-server/host/test_API

There is no request payload for a DELETE operation.

Sample response header

The following is an example response header on successful operation.

```
< HTTP/1.1 204 No Content
< Date: Tue, 24 Jun 2014 10:50:33 GMT
< Server: NOS Wave WWW
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Length: 0
< Content-Type: text/html
< Connection: close
```

There is no response body in the case of a DELETE operation.

ACL configuration

ACLs filter traffic for the Brocade VDX hardware platforms and permit or deny frames on ingress interfaces that have the ACLs applied to them.

Each ACL is a unique collection of “permit” and “deny” statements (rules) that apply to frames. When a frame is received on an interface, the switch compares the fields in the frame against any ACLs applied to the interface to verify that the frame has the required permissions to be forwarded. The switch compares the frame sequentially against each rule in the ACL, and either forwards the frame or drops the frame.

The switch examines ACLs associated with options configured on a given interface. As frames enter the switch on an interface, ACLs associated with all inbound options configured on that interface are examined.

NOTE

Only few sample configurations are given in this section.

Creating a standard MAC ACL

A MAC ACL does not take effect until it is applied to a Layer 2 interface.

1. Establish a REST session with Network OS.
2. Create a standard MAC ACL using the POST operation by calling the following URI.

```
<BASE_URI>/config/running/mac/access-list
```

Sample request payload

```
<standard>
  <name>acl01</name>
</standard>
```

Sample response header

The following example shows the response header of a successful operation.

```
< HTTP/1.1 100 Continue
< HTTP/1.1 201 Created
< Date: Tue, 24 Jun 2014 10:38:15 GMT
< Server: NOS Wave WWW
< Location:
http://192.168.10.2/rest/config/running/mac/access-list/standard/acl01
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Length: 0
< Content-Type: text/html
< Connection: close
```

There is no response body in the case of a POST operation.

3. Create MAC ACL rules in a specific sequence using the POST operation by calling the following URI.

```
<BASE_URI>/config/running/mac/access-list/standard/acl01/seq
```

Sample request payload

```
<seq>
  <seq-id>100</seq-id>
```

3 ACL configuration

```
<action>permit</action>
<source>0011.2222.3333</source>
<count>>true</count>
</seq>
```

Sample response header

The following example shows the response header of a successful operation.

```
< HTTP/1.1 100 Continue
< HTTP/1.1 201 Created
< Date: Tue, 24 Jun 2014 10:38:15 GMT
< Server: NOS Wave WWW
< Location:
http://192.168.10.2/rest/config/running/mac/access-list/standard/acl01/seq/10
0
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Length: 0
< Content-Type: text/html
< Connection: close
```

There is no response body in the case of a POST operation.

Applying a MAC ACL to a VLAN interface

Ensure that the ACL that you want to apply exists and is configured to filter traffic in the manner that you need for this VLAN interface.

1. Establish a REST session with Network OS.
2. Specify the MAC ACL that is to be applied to the VLAN interface in the ingress direction using the POST operation by calling the following URI.

```
<BASE_URI>/config/running/interface/vlan/1/mac
```

Sample request payload

```
<access-group>
  <mac-access-list>list01</mac-access-list>
  <mac-direction>in</mac-direction>
</access-group>
```

Sample response header

The following example shows the response header of a successful operation.

```
< HTTP/1.1 100 Continue
< HTTP/1.1 201 Created
< Date: Tue, 24 Jun 2014 10:38:15 GMT
< Server: NOS Wave WWW
< Location:
http://192.168.10.2/rest/config/running/interface/vlan/1/mac/list01%2Cin
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Length: 0
< Content-Type: text/html
< Connection: close
```

There is no response body in the case of a POST operation.

Modifying MAC ACL rules

You cannot modify the existing rules of a MAC ACL. However, you can remove the rule and then recreate it with the desired changes.

1. Establish a REST session with Network OS.
2. Remove the exiting rule using the DELETE operation by calling the following URI.
<BASE_URI>/config/running/mac/access-list/standard/acl01/seq/100
3. Perform the POST operation by calling the following URI. Refer to [step 3](#) of the “[Creating a standard MAC ACL](#)” section.

<BASE_URI>/config/running/mac/access-list/standard/acl01/seq

Removing a MAC ACL

A MAC ACL cannot be removed from the system unless the access-group applying the MAC ACL to a DCB or a VLAN interface is first removed.

1. Establish a REST session with Network OS.
2. Remove the MAC ACL using the DELETE operation by calling the following URI.

<BASE_URI>/config/running/mac/access-list/standard/acl01

3 ACL configuration

API Reference

In this chapter

- [Configuration APIs](#)
- [Operational APIs](#)

Configuration APIs

The URI `http://host:80/rest/config` is used to identify the configuration resource and retrieves the supported configuration datastore as its first-level child resource.

aaa

Configures, modifies, or retrieves AAA server configuration.

Resource URIs

URI	Description
<base_URI>/config/running/aaa	Types of AAA server
<base_URI>/config/running/aaa/accounting	Login or command accounting. Refer to aaa/accounting for information
<base_URI>/config/running/aaa/authentication	Order for authentication. Refer to aaa/authentication for information

Parameters

Name	Description
<i>authentication</i>	Configures preferred order for authentication
<i>accounting</i>	Configures login accounting

Usage guidelines

GET, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/aaa
```

Request body

None

Response body

```
<aaa xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/aaa">
  <authentication y:self="/rest/config/running/aaa/authentication"/>
  <accounting y:self="/rest/config/running/aaa/accounting"/>
</aaa>
```

History

Release version	History
5.0.0	The API call was introduced.

aaa/accounting

Configures, modifies, or retrieves login or command accounting configuration.

Resource URIs

URI	Description
<base_URI>/config/running/aaa/accounting	Login or command accounting
<base_URI>/config/running/aaa/accounting/commands	Enables or disabled command accounting
<base_URI>/config/running/aaa/accounting/exec	Enables or disables login accounting

Parameters

Name	Description
server-type	Enables or disables login accounting. Possible configurations are None and tacacs+ . Configuring server-type as None disables login accounting. Configuring server-type as tacacs+ uses TACACS+ servers

Usage guidelines

GET, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/aaa/accounting
```

Request body

None

Response body

```
<accounting y:self="/rest/config/running/aaa/accounting">
  <exec y:self="/rest/config/running/aaa/accounting/exec">
    <default y:self="/rest/config/running/aaa/accounting/exec/default">
      <start-stop
y:self="/rest/config/running/aaa/accounting/exec/default/start-stop">
        <server-type>none</server-type>
      </start-stop>
    </default>
  </exec>
  <commands y:self="/rest/config/running/aaa/accounting/commands">
    <default y:self="/rest/config/running/aaa/accounting/commands/default">
      <start-stop
y:self="/rest/config/running/aaa/accounting/commands/default/start-stop">
        <server-type>tacacs+</server-type>
      </start-stop>
    </default>
  </commands>
</accounting>
```

4 Configuration APIs

History

Release version	History
5.0.0	The API call was introduced.

aaa/authentication

Configures, modifies, or retrieves preferred order of authentication.

Resource URIs

URI	Description
<base_URI>/config/running/aaa/authentication	Order for authentication
<base_URI>/config/running/aaa/authentication/login	Order of sources for login

Parameters

Name	Description
<i>first</i>	Specifies the type of server that will be used for authentication, authorization, and accounting (AAA) on the switch. Possible configurations are default , ldap , local , radius , and tacacs+ . The local server is the default.
<i>second</i>	Specifies the the use of local switch database. Possible configurations are local and local-auth-fallback . Configuring local allows the use of the local switch database if prior authentication methods are inactive. Configuring local-auth-fallback allows the use of the local switch database if prior authentication methods are not active or if authentication fails

Usage guidelines

GET, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/aaa/authentication
```

Request body

None

Response body

```
<authentication y:self="/rest/config/running/aaa/authentication">
  <login y:self="/rest/config/running/aaa/authentication/login">
    <first>tacacs+</first>
    <second>local-auth-fallback</second>
  </login>
</authentication>
```

History

Release version	History
5.0.0	The API call was introduced.

alias-config

Configures, modifies, or retrieves alias configuration.

Resource URIs

URI	Description
<base_URI>/config/running/alias-config	User and global alias
<base_URI>/config/running/alias-config/alias	Global alias. Refer to alias-config/alias for information
<base_URI>/config/running/alias-config/user	User alias. Refer to alias-config/user for information

Parameters

Name	Description
<i>alias</i>	Configures global alias
<i>user</i>	Configures user alias mode

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

NOTE

The DELETE operation is supported only on alias and user URIs.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/alias-config
```

Request body

None

Response body

```
<alias-config xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/alias-config">
  <alias y:self="/rest/config/running/alias-config/alias/alias1"/>
  <user y:self="/rest/config/running/alias-config/user/user0"/>
</alias-config>
```

History

Release version	History
5.0.0	The API call was introduced.

alias-config/alias

Configures, modifies, or retrieves global alias configuration.

Resource URIs

URI	Description
<base_URI>/config/running/alias-config/alias	Global alias

Parameters

Name	Description
<i>name</i>	Specifies the alias name string. The value can range from 1 through 64 characters
<i>expansion</i>	Specifies the alias name string. The value can range from 1 through 64 characters

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

NOTE

The DELETE operation is supported only on alias and user URIs.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/alias-config/alias
```

Request body

None

Response body

```
<alias y:self="/rest/config/running/alias-config/alias/alias1">
  <name>alias1</name>
  <expansion>alias_exp1</expansion>
</alias>
```

The following is an example of the POST operation to create a new global alias configuration.

URI

```
http://host:80/rest/config/running/alias-config/alias
```

Request body

```
<name>alias1</name>
<expansion>alias_exp1</expansion>
```

Response body

None

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The following is an example of the DELETE operation to remove an alias name.

URI

`http://host:80/rest/config/running/alias-config/alias/alias1`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

alias-config/user

Configures, modifies, or retrieves user alias configuration.

Resource URIs

URI	Description
<base_URI>/config/running/alias-config/user	User alias

Parameters

Name	Description
<i>name</i>	Specifies the user name string. The value can range from 1 through 64 characters
<i>expansion</i>	Specifies the user alias expansion

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

NOTE

The DELETE operation is supported only on alias and user URIs.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/alias-config/user
```

Request body

None

Response body

```
<user y:self="/rest/config/running/alias-config/user/user0">
  <name>user0</name>
  <alias y:self="/rest/config/running/alias-config/user/user0/alias/alias0">
    <name>alias0</name>
  </alias>
</user>
<user y:self="/rest/config/running/alias-config/user/user1">
  <name>user1</name>
  <alias
y:self="/rest/config/running/alias-config/user/user1/alias/alias_user1">
    <name>alias_user1</name>
    <expansion>alias_exp3</expansion>
  </alias>
</user>
<user y:self="/rest/config/running/alias-config/user/user2">
  <name>user2</name>
  <alias y:self="/rest/config/running/alias-config/user/user2/alias/user3">
```

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```
<name>user3</name>
</alias>
</user>
```

The following is an example of the POST operation to create a new user.

URI

`http://host:80/rest/config/running/alias-config`

Request body

```
<user>
  <name>user3</name>
</user>
```

Response body

None

The following is an example of the DELETE operation to remove a user name.

URI

`http://host:80/rest/config/running/alias-config/user/user2`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

arp

Configures, modifies, or retrieves the ARP configuration.

Resource URIs

URI	Description
<base_URI>/config/running/arp	Configures ARP
<base_URI>/config/running/arp/access-list	Configures ARP access list
<base_URI>/config/running/arp/access-list/{access-list name}/permit	Allows traffic
<base_URI>/config/running/arp/access-list/{access-list name}/permit/ip	Allows traffic from the specified IP address

Parameters

Name	Description
<i>acl-name</i>	Specifies the name of the ARP ACL. The name can be up to 63 characters in length, and must begin with an alphanumeric character. No special characters are allowed, except for the underscore and hyphen
<i>ip-type</i>	Sets the IP address type
<i>host-ip</i>	Specifies the sender IP address
<i>mac</i>	Sets the MAC address type
<i>host-mac</i>	Specifies the sender MAC address, in hexadecimal format
<i>log</i>	Enables logging for this permit rule

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/arp
```

Request body

None

Response body

```
<arp xmlns="urn:brocade.com:mgmt:brocade-dai"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/arp">
  <access-list y:self="/rest/config/running/arp/access-list/acl">
    <acl-name>acl</acl-name>
    <permit y:self="/rest/config/running/arp/access-list/acl/permit">
```

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```
    <ip
y:self="/rest/config/running/arp/access-list/acl/permit/ip/host%2C21.22.25.65%2C
host%2C0011.1122.2233">
    <ip-type>host</ip-type>
    <host-ip>21.22.25.65</host-ip>
    <mac>host</mac>
    <host-mac>0011.1122.2233</host-mac>
    <log>true</log>
  </ip>
</permit>
</access-list>
</arp>
```

The following is an example of the POST operation to create a new access list.

URI

`http://host:80/rest/config/running/arp`

Request body

```
<access-list>
  <acl-name>acl2</acl-name>
</access-list>
```

Response body

None

The following is an example of the DELETE operation to remove the IP address configuration.

URI

`http://host:80/rest/config/running/arp/access-list/acl/permit/ip`

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.

banner

Configures, modifies, or retrieves banner messages.

Resource URIs

URI	Description
<base_URI>/config/running/banner	Banner messages

Parameters

Name	Description
<i>login</i>	Specifies the message string to be displayed on the switch console
<i>motd</i>	Specifies the message string to be displayed on the switch console. The number of lines can be from 1 through 2048. Enter Message of the Day banner text in single line mode or press ESC-M to enter multiline mode
<i>incoming</i>	Specifies the message string to be displayed on the switch console. The number of lines can be from 1 through 2048. Enter incoming banner text in single line mode or press ESC-M to enter multiline mode

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the banner messages.

URI

```
http://host:80/rest/config/running/banner
```

Request body

None

Response body

```
<banner xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/banner">
  <login>user1</login>
  <motd>Good Morning</motd>
  <incoming>yes</incoming>
</banner>
```

The following is an example of the DELETE operation to remove a message of the day banner message.

URI

```
http://host:80/rest/config/running/banner/motd
```

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Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

cee-map

Configures, modifies, or retrieves CEE map commands.

Resource URIs

URI	Description
<base_URI>/config/running/cee-map	CEE map command
<base_URI>/config/running/cee-map/default	The map name
<base_URI>/config/running/cee-map/default/priority-group-table	Priority group table. Refer to cee-map/priority-group-table for information
<base_URI>/config/running/cee-map/default/priority-table	Priority table. Refer to cee-map/priority-table for information
<base_URI>/config/running/cee-map/default/remap	Class of service to be remapped. Refer to cee-map/remap for information

Parameters

Name	Description
<i>name</i>	Specifies the CEE map name
<i>precedence</i>	Specifies the precedence value. The value can range from 1 through 100
<i>priority-group-table</i>	Configures Priority group table
<i>priority-table</i>	Configures priority table
<i>remap</i>	Configures Class of Service (CoS) to be remapped

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/cee-map
```

Request body

None

Response body

```
<cee-map xmlns="urn:brocade.com:mgmt:brocade-cee-map"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/cee-map/default">
  <name>default</name>
  <precedence>40</precedence>
  <priority-group-table
y:self="/rest/config/running/cee-map/default/priority-group-table/1"/>
```

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```
<priority-table y:self="/rest/config/running/cee-map/default/priority-table"/>  
<remap y:self="/rest/config/running/cee-map/default/remap"/>  
</cee-map>
```

History

Release version	History
5.0.0	The API call was introduced.

cee-map/priority-group-table

Configures, modifies, or retrieves priority group table configuration.

Resource URIs

URI	Description
<base_URI>/config/running/cee-map/default/priority-group-table	Configures Priority group table

Parameters

Name	Description
<i>priority-group-table</i>	Specifies the priority group ID (PGID) assigned to a priority group. The value can range from 15.0 through 15.7 for the eight reserved Strict Priority PGIDs
<i>weight</i>	Maps a weight to a Deficit Weighted Round Robin (DWRR) scheduler queue. This parameter is only valid for the DWRR Priority Group. The sum of all DWRR Priority Group weight values must equal 100 percent. The value can range from 1 through 100
<i>pf</i>	Enables the Priority-based Flow Control (PFC) for each priority that gets mapped to the priority group. Possible configurations are on and off . Configuring on will enable PFC. Configuring off will disable PFC

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/cee-map/default/priority-group-table
```

Request body

None

Response body

```
<priority-group-table
y:self="/rest/config/running/cee-map/default/priority-group-table/1">
  <PGID>1</PGID>
  <weight>12</weight>
  <pf>on</pf>
</priority-group-table>
<priority-group-table
y:self="/rest/config/running/cee-map/default/priority-group-table/15.0">
  <PGID>15.0</PGID>
  <pf>off</pf>
</priority-group-table>
<priority-group-table
y:self="/rest/config/running/cee-map/default/priority-group-table/2">
  <PGID>2</PGID>
```

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```
<weight>60</weight>
<pfic>off</pfic>
</priority-group-table>
```

The following is an example of the POST operation to add a priority group table in a CEE map.

URI

`http://host:80/rest/config/running/cee-map/default`

Request body

```
<priority-group-table>
  <PGID>5</PGID>
  <weight>10</weight>
  <pfic>on</pfic>
</priority-group-table>
```

Response body

None

The following is an example of the DELETE operation to remove a priority group table from a CEE map.

URI

`http://host:80/rest/config/running/cee-map/default/priority-group-table/5`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

cee-map/priority-table

Configures, modifies, or retrieves priority table configuration.

Resource URIs

URI	Description
<base_URI>/config/running/cee-map/default/priority-table	Priority table

Parameters

Name	Description
priority-table	Mapping CoS 0 to 7 to priority group table

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/cee-map/default/priority-table
```

Request body

None

Response body

```
<priority-table y:self="/rest/config/running/cee-map/default/priority-table">
  <map-cos0-pgid>2</map-cos0-pgid>
  <map-cos1-pgid>2</map-cos1-pgid>
  <map-cos2-pgid>2</map-cos2-pgid>
  <map-cos3-pgid>1</map-cos3-pgid>
  <map-cos4-pgid>2</map-cos4-pgid>
  <map-cos5-pgid>2</map-cos5-pgid>
  <map-cos6-pgid>2</map-cos6-pgid>
  <map-cos7-pgid>15.0</map-cos7-pgid>
</priority-table>
```

History

Release version	History
5.0.0	The API call was introduced.

cee-map/remap

Configures, modifies, or retrieves Class of Service (CoS) configuration.

Resource URIs

URI	Description
<base_URI>/config/running/cee-map/default/remap	Class of service to be remapped

Parameters

Name	Description
<i>fabric-priority</i>	Specifies the remapped CoS priority value for Brocade VCS Fabric mode. The value can range from 0 through 6
<i>lossless-priority</i>	Specifies the remapped priority value. The value can range from 0 through 6. The default value is 0
<i>priority</i>	Configures fabric-priority or lossless-priority remapped CoS value

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/cee-map/remap

Request body

None

Response body

```
<remap y:self="/rest/config/running/cee-map/default/remap">
  <fabric-priority
y:self="/rest/config/running/cee-map/default/remap/fabric-priority">
    <priority>1</priority>
  </fabric-priority>
  <lossless-priority
y:self="/rest/config/running/cee-map/default/remap/lossless-priority">
    <priority>2</priority>
  </lossless-priority>
</remap>
```

History

Release version	History
5.0.0	The API call was introduced.

class-map

Configures, modifies, or retrieves class map configurations.

Resource URIs

URI	Description
<base_URI>/config/running/class-map	Class map
<base_URI>/config/running/class-map/match/access-group	Class map match criteria

Parameters

Name	Description
<i>name</i>	Specifies the classification map name. The map name is restricted to 64 characters
<i>access-group-name</i>	Specifies any valid Layer 2 or Layer 3 ACL access list name

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/class-map
```

Request body

None

Response body

```
<class-map xmlns="urn:brocade.com:mgmt:brocade-policer"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/class-map/c1">
  <name>c1</name>
  <match y:self="/rest/config/running/class-map/c1/match">
    <access-group y:self="/rest/config/running/class-map/c1/match/access-group">
      <access-group-name>acl1</access-group-name>
    </access-group>
  </match>
</class-map>
<class-map xmlns="urn:brocade.com:mgmt:brocade-policer"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/class-map/class1">
  <name>class1</name>
  <match y:self="/rest/config/running/class-map/class1/match">
    <access-group
y:self="/rest/config/running/class-map/class1/match/access-group"/>
  </match>
</class-map>
```

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```
<class-map xmlns="urn:brocade.com:mgmt:brocade-policer"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/class-map/default">
  <name>default</name>
</class-map>
<class-map xmlns="urn:brocade.com:mgmt:brocade-policer"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/class-map/user12">
  <name>user12</name>
  <match y:self="/rest/config/running/class-map/user12/match">
    <access-group
y:self="/rest/config/running/class-map/user12/match/access-group"/>
  </match>
</class-map>
```

The following is an example of the DELETE operation to remove a class map name.

URI

`http://host:80/rest/config/running/class-map/c5`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

diag

Configures, modifies, or retrieves diagnostics configurations.

Resource URIs

URI	Description
<base_URI>/config/running/diag	Diagnostics
<base_URI>/config/running/diag/post/rbridge-id	RBridge ID

Parameters

Name	Description
<i>rbridge-id</i>	Specifies an RBridge ID on which POST is run
<i>enable</i>	Enables the power-on self-test on the specified switch

Usage guidelines

GET, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/diag
```

Request body

None

Response body

```
<diag xmlns="urn:brocade.com:mgmt:brocade-diagnostics"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/diag">
  <post y:self="/rest/config/running/diag/post">
    <rbridge-id y:self="/rest/config/running/diag/post/rbridge-id/54">
      <rbridge-id>54</rbridge-id>
      <enable>true</enable>
    </rbridge-id>
    <rbridge-id y:self="/rest/config/running/diag/post/rbridge-id/55">
      <rbridge-id>55</rbridge-id>
      <enable>true</enable>
    </rbridge-id>
    <rbridge-id y:self="/rest/config/running/diag/post/rbridge-id/122">
      <rbridge-id>122</rbridge-id>
      <enable>true</enable>
    </rbridge-id>
  </post>
</diag>
```

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History

Release version	History
5.0.0	The API call was introduced.

dot1x

Configures, modifies, or retrieves dot1x configurations.

Resource URIs

URI	Description
<base_URI>/config/running/dot1x	IEEE 802.1X Port-Based Access Control
<base_URI>/config/running/dot1x/test	Timeout for dot1x readiness check

Parameters

Name	Description
enable	Enables global port authentication
timeout	Specifies the interval value in seconds. The value can range from 1 through 65535

Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/dot1x
```

Request body

None

Response body

```
<dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/dot1x">
  <enable>true</enable>
  <test y:self="/rest/config/running/dot1x/test">
    <timeout>30</timeout>
  </test>
</dot1x>
```

The following is an example of the PUT operation to add or modify the timeout value for dot1x.

URI

```
http://host:80/rest/config/running/dot1x/test
```

Request body

```
<test>
  <timeout>45</timeout>
</test>
```

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Response body

None

The following is an example of the DELETE operation to change the timeout value back to the default value.

URI

```
http://host:80/rest/config/running/dot1x/test
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

dpod

Configures, modifies, or retrieves Dynamic Ports on Demand (DPOD) license assignments.

Resource URIs

URI	Description
<base_URI>/config/running/dpod	Manage and display DPOD license assignments

Parameters

Name	Description
<i>port-id</i>	Specifies the port ID in rbridge-id/slot/port
<i>operation</i>	Manages DPOD license assignments. The possible configurations are release and reserver . Configuring release removes a port from the port set to which it is currently assigned. Configuring reserve reserves a POD assignment for a port that is currently not able to come online but is expected to be viable in the future. A port license assignment that is reserved will be associated with the first port set that has a vacancy

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/dpod
```

Request body

None

Response body

```
<dpod xmlns="urn:brocade.com:mgmt:brocade-license"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/dpod">
  <port-id y:self="/rest/config/running/dpod/port-id/%2254/0/1%22">
    <port-id>54/0/1</port-id>
    <operation>reserve</operation>
  </port-id>
  <port-id y:self="/rest/config/running/dpod/port-id/%2254/0/9%22">
    <port-id>54/0/9</port-id>
  </port-id>
  <port-id y:self="/rest/config/running/dpod/port-id/%2254/0/10%22">
    <port-id>54/0/10</port-id>
  </port-id>
</dpod>
```

The following is an example of the POST operation to add a port ID to the DPOD license and set the operation.

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URI

`http://host:80/rest/config/running/dpod`

Request body

```
<port-id>
  <port-id>55/0/1</port-id>
  <operation>reserve</operation>
</port-id>
```

Response body

None

The following is an example of the DELETE operation to remove a port ID to the DPOD license.

URI

`http://host:80/rest/config/running/dpod/port-id/%2255/0/1%22`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

fabric

Configures, modifies, or retrieves fabric-related parameters.

Resource URIs

URI	Description
<base_URI>/config/running/fabric	Fabric-related parameters
<base_URI>/config/running/fabric/route/mcast/rbridge-id/{rbridge-id}/priority	Multicast priority for this RBridge

Parameters

Name	Description
rbridge-id	Specifies an RBridge ID
priority	Specifies the priority number of the RBridge ID. The highest priority overrides the lowest RBridge ID and becomes the root.

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/fabric
```

Request body

None

Response body

```
<fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/fabric">
  <route y:self="/rest/config/running/fabric/route">
    <mcast y:self="/rest/config/running/fabric/route/mcast">
      <rbridge-id
y:self="/rest/config/running/fabric/route/mcast/rbridge-id/54">
        <rbridge-id>54</rbridge-id>
        <priority>58</priority>
      </rbridge-id>
      <rbridge-id
y:self="/rest/config/running/fabric/route/mcast/rbridge-id/55">
        <rbridge-id>55</rbridge-id>
        <priority>30</priority>
      </rbridge-id>
      <rbridge-id
y:self="/rest/config/running/fabric/route/mcast/rbridge-id/122">
        <rbridge-id>122</rbridge-id>
    </mcast>
  </route>
</fabric>
```

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```
<priority>255</priority>
</rbridge-id>
</mcast>
</route>
</fabric>
```

The following is an example of the DELETE operation to set the priority to the default.

URI

`http://host:80/rest/config/running/fabric/route/mcast/rbridge-id/55/priority`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

fcoe

Configures, modifies, or retrieves FCoE configuration commands.

Resource URIs

URI	Description
<base_URI>/config/running/fcoe	FCoE commands
<base_URI>/config/running/fcoe/fabric-map	FCoE Fabric-map parameters
<base_URI>/config/running/fcoe/fabric-map/fcf-group	FCF groups

Parameters

Name	Description
<i>fcoe-fabric-map-name</i>	Specifies the FCoE Fabric-map name
<i>priority</i>	Sets the priority for the FCoE Fabric-map. The value can range from 0 through 6
<i>vlan</i>	FCoE VLAN. The value can range from 2 through 4090
<i>virtual-fabric</i>	Virtual-Fabric ID. The value can range from 1 though 4096
<i>fcf-group</i>	Configures the fcf-group for an FCoE Fabric-map
<i>interval</i>	Specifies the interval value in milliseconds. The value can range from 250 through 90000 milliseconds
<i>keep-alive</i>	Enables or disables the interval for KEEPALIVE messages
<i>timeout</i>	Enables or disables the timeout for KEEPALIVE messages
<i>fif-rbid</i>	Specifies the RBridge ID of the AG functioning as the FCF

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/fcoe
```

Request body

None

Response body

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/fcoe">
  <fabric-map y:self="/rest/config/running/fcoe/fabric-map/SanA">
    <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
    <vlan>4</vlan>
    <san-mode>remote</san-mode>
```

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```
<priority>4</priority>
<virtual-fabric>128</virtual-fabric>
<fcf-group>0E:FC:03</fcf-group>
<advertisement
y:self="/rest/config/running/fcoe/fabric-map/SanA/advertisement">
  <interval>300</interval>
</advertisement>
<keep-alive y:self="/rest/config/running/fcoe/fabric-map/SanA/keep-alive">
  <timeout>true</timeout>
</keep-alive>
<fcf-group
y:self="/rest/config/running/fcoe/fabric-map/SanA/fcf-group/rack1">
  <fcf-map-name>rack1</fcf-map-name>
  <fif-rbid
y:self="/rest/config/running/fcoe/fabric-map/SanA/fcf-group/rack1/fif-rbid">
    <add>10-12</add>
  </fif-rbid>
</fcf-group>
</fabric-map>
</fcoe>
```

The following is an example of the DELETE operation to change the advertisement interval back to the default value.

URI

```
http://host:80/rest/config/running/fcoe/fabric-map/default/advertisement/
interval
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to rename the parameter <i>fcmap</i> to <i>fcf-group</i> . The API was modified to include the parameter <i>fcf-map-name</i> and <i>add</i> under <i>fcf-group</i> .

hardware

Configures, modifies, or retrieves the hardware management configuration.

Resource URIs

URI	Description
<base_URI>/config/running/hardware	Hardware management configuration
<base_URI>/config/running/hardware/connector	Connector. Refer to hardware/connector for information
<base_URI>/config/running/hardware/connector-group	Connector group. Refer to hardware/connector-group for information
<base_URI>/config/running/hardware/custom-profile	Configures customized hardware profiles. Refer to hardware/custom-profile for information
<base_URI>/config/running/hardware/flexport	Option to change the Ethernet port to a Fibre Channel port. Refer to hardware/flexport for information
<base_URI>/config/running/hardware/port-group	Port group. Refer to hardware/port-group for information

Parameters

Name	Description
<i>connector</i>	Configures a connector
<i>connector-group</i>	Configures a connector group
<i>custom-profile</i>	Configures customized hardware profiles
<i>flexport</i>	Provides an option to change Ethernet port to FibreChannel port
<i>port-group</i>	Configures a port group

Usage guidelines

GET, POST, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/hardware
```

Request body

None

Response body

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/hardware">
```

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```
<custom-profile xmlns="urn:brocade.com:mgmt:brocade-hardware"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/hardware/custom-profile"/>
  <connector y:self="/rest/config/running/hardware/connector/%22122/8/9%22"/>
  <flexport y:self="/rest/config/running/hardware/flexport/%2254/0/6%22"/>
  <connector-group
y:self="/rest/config/running/hardware/connector-group/%2254/0/1%22"/>
  <port-group y:self="/rest/config/running/hardware/port-group/%2254/0/54%22"/>
</hardware>
```

History

Release version	History
5.0.0	The API call was introduced.

hardware/connector

Configures, modifies, or retrieves the hardware connector configuration.

Resource URIs

URI	Description
<base_URI>/config/running/hardware/connector	Configures a connector
<base_URI>/config/running/hardware/connector/{rbridge-id/slot/port}/sfp	Configures SFP

Parameters

Name	Description
<i>name</i>	Specifies the interface name in [rbridge-id]/slot/port format
<i>breakout</i>	Enables SFP port breakout

Usage guidelines

GET, POST, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/hardware/connector
```

Request body

None

Response body

```
<connector y:self="/rest/config/running/hardware/connector/%22122/8/9%22">
  <name>122/8/9</name>
  <sfp y:self="/rest/config/running/hardware/connector/%22122/8/9%22/sfp">
    <breakout>true</breakout>
  </sfp>
</connector>
```

The following is an example of the POST operation to add a connector to the hardware configuration.

URI

```
http://host:80/rest/config/running/hardware
```

Request body

```
<connector>
  <name>1/0/49</name>
</connector>
```

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Response body

None

History

Release version	History
5.0.0	The API call was introduced.

hardware/connector-group

Configures, modifies, or retrieves the hardware connector-group configuration.

Resource URIs

URI	Description
<base_URI>/config/running/hardware/connector-group	Connector group

Parameters

Name	Description
<i>id</i>	Specifies a valid Fibre Channel port interface
<i>speed</i>	Specifies the speed. Possible configurations are FibreChannel or HighMixed or LowMixed . Configuring FibreChannel sets the speed to support only fibre channel speeds and protocol. All FlexPorts in this connector-group must be converted to fibre-channel in order to use the FibreChannel connector-group speed. Configuring HighMixed sets the speed to 16G Fibre Channel and Ethernet speeds. Configuring LowMixed sets to speed to 2/4/8G Fibre Channel and Ethernet speeds

Usage guidelines

GET, POST, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/hardware/connector-group
```

Request body

None

Response body

```
<connector-group
y:self="/rest/config/running/hardware/connector-group/%2254/0/1%22">
  <id>54/0/1</id>
  <speed>HighMixed</speed>
</connector-group>
<connector-group
y:self="/rest/config/running/hardware/connector-group/%2254/0/3%22">
  <id>54/0/3</id>
  <speed>LowMixed</speed>
</connector-group>
```

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History

Release version	History
5.0.0	The API call was introduced.

hardware/custom-profile

Configures, modifies, or retrieves the customized hardware profiles.

Resource URIs

URI	Description
<base_URI>/config/running/hardware/custom-profile	Configures customized hardware profiles

Parameters

Name	Description
<i>name</i>	Specifies the name of the user-specified profile
<i>hello-interval</i>	Specifies the hello interval. The interval can range from 50 through 30000 milliseconds. The default hello interval is set to 1000 milliseconds
<i>num-entry</i>	Specifies number of keep alive entries per slot. The value can range from 0 through 200

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/hardware/custom-profile
```

Request body

None

Response body

```
<custom-profile xmlns="urn:brocade.com:mgmt:brocade-hardware"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/hardware/custom-profile">
  <kap y:self="/rest/config/running/hardware/custom-profile/kap/kap1">
    <name>kap1</name>
    <lacp y:self="/rest/config/running/hardware/custom-profile/kap/kap1/lacp">
      <hello-interval>1000</hello-interval>
      <num-entry>42</num-entry>
    </lacp>
    <xstp y:self="/rest/config/running/hardware/custom-profile/kap/kap1/xstp">
      <hello-interval>2000</hello-interval>
      <num-entry>40</num-entry>
    </xstp>
    <rpvst y:self="/rest/config/running/hardware/custom-profile/kap/kap1/rpvst">
      <hello-interval>2500</hello-interval>
      <num-entry>100</num-entry>
    </rpvst>
    <udld y:self="/rest/config/running/hardware/custom-profile/kap/kap1/udld">
```

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```
        <hello-interval>500</hello-interval>
        <num-entry>45</num-entry>
    </udld>
    <bfd-vxlan
y:self="/rest/config/running/hardware/custom-profile/kap/kap1/bfd-vxlan">
        <hello-interval>500</hello-interval>
        <num-entry>5</num-entry>
    </bfd-vxlan>
    <bfd-l3
y:self="/rest/config/running/hardware/custom-profile/kap/kap1/bfd-l3">
        <hello-interval>600</hello-interval>
        <num-entry>400</num-entry>
    </bfd-l3>
    <fcoe y:self="/rest/config/running/hardware/custom-profile/kap/kap1/fcoe">
        <hello-interval>2</hello-interval>
        <num-entry>64</num-entry>
    </fcoe>
</kap>
</custom-profile>
```

The following is an example of the PUT operation to add LACP protocol KAP parameters.

URI

`http://host:80/rest/config/running/hardware/custom-profile/kap/kap2/lacp`

Request body

```
<lacp>
  <hello-interval>1000</hello-interval>
  <num-entry>42</num-entry>
</lacp>
```

Response body

None

The following is an example of the DELETE operation to remove the LACP configuration.

URI

`http://host:80/rest/config/running/hardware/custom-profile/kap/kap2/lacp`

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.

hardware/flexport

Provides an option to change the Ethernet port to a Fibre Channel port.

Resource URIs

URI	Description
<base_URI>/config/running/hardware/flexport	Option to change the Ethernet port to a Fibre Channel port

Parameters

Name	Description
<i>id</i>	Specifies the interface name in [rbridge-id]/slot/port format
<i>type</i>	Specifies the interface type. Possible configurations are ethernet and FibreChannel . Configuring ethernet sets the interface type as ethernet. Configuring FibreChannel sets the interface type as FibreChannel.

Usage guidelines

GET, POST, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/hardware/flexport
```

Request body

None

Response body

```
<flexport y:self="/rest/config/running/hardware/flexport/%2254/0/6%22">
  <id>54/0/6</id>
  <type>ethernet</type>
</flexport>
```

The following is an example of the POST operation to change the Ethernet port to a Fibre Channel port.

URI

```
http://host:80/rest/config/running/hardware
```

Request body

```
<flexport>
  <id>2/0/1</id>
</flexport>
```

4 Configuration APIs

Response body

None

The following is an example of the DELETE operation to remove the flexport configuration.

URI

`http://host:80/rest/config/running/hardware/flexport/%222/0/1%22`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

hardware/port-group

Configures, modifies, or retrieves the hardware port group configuration.

Resource URIs

URI	Description
<base_URI>/config/running/hardware/port-group	Port group

Parameters

Name	Description
<i>id</i>	Specifies the port-group interface name in [rbridge-id]/slot/port format
<i>type</i>	Configures the port type

Usage guidelines

GET, POST, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/hardware/port-group
```

Request body

None

Response body

```
<port-group y:self="/rest/config/running/hardware/port-group/%2254/0/54%22">
  <id>54/0/54</id>
  <type>ethernet</type>
</port-group>
```

History

Release version	History
5.0.0	The API call was introduced.

interface

Configures, modifies, or retrieves all the interface-related configurations or data.

Resource URIs

URI	Description
<base_URI>/config/running/interface	Interface-related configuration or data
<base_URI>/config/running/interface/fcoe	The list of FCoE logical interfaces
<base_URI>/config/running/interface/fibrechannel	The list of Fibre Channel interfaces
<base_URI>/config/running/interface/FortyGigabitEthernet	The list of FortyGigabitEthernet interfaces
<base_URI>/config/running/interface/GigabitEthernet	The list of GigabitEthernet interfaces
<base_URI>/config/running/interface/HundredGigabitEthernet	The list of HundredGigabitEthernet interfaces
<base_URI>/config/running/interface/management	The list of management interfaces
<base_URI>/config/running/interface/port-channel	The list of port-channels
<base_URI>/config/running/interface/TenGigabitEthernet	The list of TenGigabitEthernet interfaces
<base_URI>/config/running/interface/ve	The list of global VEs
<base_URI>/config/running/interface/vlan	The list of VLANs

Parameters

Name	Description
<i>name</i>	Specifies the VLAN interface number
<i>gve-name</i>	Specifies the VE interface number
<i>name</i>	Specifies the Interface name rbridge-id/port format- Applicable for management rbridge-id/slot/port format - Applicable for: Tengigabitethernet, Gigabitethernet, Hundredgigabitethernet, Fortygigabitethernet)
<i>cee</i>	Applies default CEE map 'default'
<i>load-balance</i>	Sets the load balancing commands
<i>mtu</i>	Specifies the size of the maximum transmission unit (MTU) of an interfaces. The value can range from 1300 through 9018 bytes
<i>minimum-links</i>	Configures the least number of operationally UP links to declare port-channel UP
<i>rspan-vlan</i>	Configures the VLAN as RSPAN VLAN
<i>bpdu-drop</i>	Configures the drop received BPDUs. Refer to interface/{interface-type}/{interface-name}/bpdu-drop for information
<i>channel-group</i>	Configures LACP channel commands. Refer to interface/{interface-type}/{interface-name}/channel-group for information
<i>description</i>	Configures interface-specific description
<i>dot1x</i>	Enables IEEE 802.1X Port-Based Access Control. Refer to interface/{interface-type}/{interface-name}/dot1x for information

Name	Description
<i>edge-loop-detection</i>	Enables edge-loop-detection on the selected interface. Refer to interface/{interface-type}/{interface-name}/edge-loop-detection for information
<i>fabric</i>	Configures the Fabric Protocol parameters. Refer to interface/{interface-type}/{interface-name}/fabric for information
<i>fcoeport</i>	Configures the port to be an FCoE port. Refer to interface/{interface-type}/{interface-name}/fcoeport for information
<i>ip</i>	Configures the Internet Protocol (IP) parameters. Refer to interface/{interface-type}/{interface-name}/ip for information
<i>ipv6</i>	Configures the Internet Protocol version 6 (IPv6) parameters. Refer to interface/{interface-type}/{interface-name}/ipv6 for information
<i>lACP</i>	Configures LACP commands. Refer to interface/{interface-type}/{interface-name}/lACP for information
<i>lldp</i>	Configures the Link Layer Discovery Protocol (LLDP) parameters. Refer to interface/{interface-type}/{interface-name}/lldp for information
<i>long-distance-isl</i>	Configures the link as long-distance-link. 2000 - 2000 meter distance link (Warning: It may disable other ISLs in the port group) 5000 - 5000 meter distance link (Warning: It may disable other ISLs in the port group) 10000 - 10,000 meter distance link (Warning: It may disable other ISLs in the port group) 30000 - 30,000 meter distance link (Warning: It may disable other ISLs in the port group and DCB/FCoE capabilities will no longer be supported) Note: Supported in TenGigabitEthernet only.
<i>mac</i>	Configures MAC parameters. Refer to interface/{interface-type}/{interface-name}/mac for information
<i>mac-learning</i>	Configures MAC learning parameters. Refer to interface/{interface-type}/{interface-name}/mac-learning for information
<i>port-profile-port</i>	Sets the interface to AMPP profile mode. Refer to interface/{interface-type}/{interface-name}/port-profile-port for information
<i>priority-tag</i>	Configures 802.1p priority tagging. Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<i>qos</i>	Configures Quality of Service (QoS) parameters. Refer to interface/{interface-type}/{interface-name}/qos for information
<i>rmon</i>	Configures Remote Monitoring Protocol (RMON) parameters. Refer to interface/{interface-type}/{interface-name}/rmon for information
<i>deviceconnectivity</i>	Configures device connectivity to IP storage device. Sets the interface device connectivity to DAS (DAS device) or NAS (NAS device) or None (port is not connected to storage device) or iSCSI (iSCSI device)
<i>service-policy</i>	Attaches Input/Output policy map. Refer to interface/{interface-type}/{interface-name}/service-policy for information
<i>sflow</i>	Configures sFlow parameters. Refer to interface/{interface-type}/{interface-name}/sflow for information
<i>shutdown</i>	Shuts down the selected interface

Name	Description
<i>spanning-tree</i>	Configures Spanning tree commands. Refer to interface/{interface-type}/{interface-name}/spanning-tree for information
<i>speed</i>	Sets speed informational parameter
<i>storm-control</i>	Configures BUM Storm Control parameters. Refer to interface/{interface-type}/{interface-name}/storm-control for information
<i>switchport</i>	Sets the switching characteristics of the Layer 2 interface. Refer to interface/{interface-type}/{interface-name}/switchport for information
<i>track</i>	Configures the track interface parameters. Refer to interface/{interface-type}/{interface-name}/track for information
<i>tunnel</i>	Configures tunneling parameters. Refer to interface/{interface-type}/{interface-name}/tunnel for information
<i>udld</i>	Configures UDLD commands. Refer to interface/{interface-type}/{interface-name}/udld for information
<i>vlan</i>	Configures VLAN commands. Refer to interface/{interface-type}/{interface-name}/vlan for information
<i>vrf</i>	Assigns VRF to this Ethernet interface. Refer to interface/{interface-type}/{interface-name}/vrf for information
<i>vrrp-group</i>	Configures VRRP parameters. Refer to interface/{interface-type}/{interface-name}/vrrp-group for information
<i>private-vlan</i>	Configures VLAN as private VLAN. Refer to interface/vlan/{vlan-number}/private-vlan for information
<i>transport-service</i>	Sets tldid for Transparent VLAN. Refer to interface/vlan/{vlan-number}/transport-service for information
<i>vlag</i>	Configures virtual LAG parameters. Refer to interface/port-channel/{port-channel-number}/vlag for information

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface
```

Request body

None

Response body

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/interface">
  <Vlan y:self="/rest/config/running/interface/Vlan/1">
    <name>1</name>
    <rspan-vlan xmlns="urn:brocade.com:mgmt:brocade-span">true</rspan-vlan>
    <private-vlan y:self="/rest/config/running/interface/Vlan/1/private-vlan">
```

```

        <association
y:self="/rest/config/running/interface/Vlan/1/private-vlan/association"/>
        </private-vlan>
    </Vlan>
    <Ve y:self="/rest/config/running/interface/Ve/10">
        <gve-name>10</gve-name>
    </Ve>
    <Management y:self="/rest/config/running/interface/Management/%22122/1%22">
        <name>122/1</name>
        <tcp y:self="/rest/config/running/interface/Management/%22122/1%22/tcp"/>
        <vrf y:self="/rest/config/running/interface/Management/%22122/1%22/vrf"/>
        <line-speed
y:self="/rest/config/running/interface/Management/%22122/1%22/line-speed"/>
        <shutdown>true</shutdown>
    </Management>
    <TenGigabitEthernet
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22">
        <name>54/0/2</name>
        <cee>default</cee>
        <long-distance-isl>2000</long-distance-isl>
        <priority-tag xmlns="urn:brocade.com:mgmt:brocade-qos">2000</priority-tag>
        <track
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/track"/>
        <port-profile-port xmlns="urn:brocade.com:mgmt:brocade-port-profile"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/port-prof
ile-port"/>
        <service-policy xmlns="urn:brocade.com:mgmt:brocade-policer"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/service-p
olicy"/>
        <deviceconnectivity
xmlns="urn:brocade.com:mgmt:brocade-maps">iSCSI</deviceconnectivity>
        <ip xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/ip"/>
        <mtu>2555</mtu>
        <description>interface1</description>
        <fabric xmlns="urn:brocade.com:mgmt:brocade-fcoe"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/fabric"/>
        <switchport
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/switchpor
t"/>
        <edge-loop-detection
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/edge-loop
-detection"/>
        <channel-group
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/channel-g
roup"/>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/qos"/>
        <vlan xmlns="urn:brocade.com:mgmt:brocade-vlan"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/vlan"/>
        <bpdu-drop xmlns="urn:brocade.com:mgmt:brocade-xstp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/bpdu-drop
"/>
        <tunnel xmlns="urn:brocade.com:mgmt:brocade-xstp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/tunnel"/>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/spanning-
tree"/>
        <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/lldp"/>

```

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```
<lacp xmlns="urn:brocade.com:mgmt:brocade-lacp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/lacp"/>
  <storm-control xmlns="urn:brocade.com:mgmt:brocade-bum-storm-control"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/storm-con
trol"/>
  <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/dot1x"/>
  <mac-learning
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/mac-learn
ing"/>
  <vrf
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/vrf"/>
  <mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/mac"/>
  <ipv6
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/ipv6"/>
  <fcoeport xmlns="urn:brocade.com:mgmt:brocade-fcoe"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/fcoeport"
/>
  <sflow xmlns="urn:brocade.com:mgmt:brocade-sflow"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/sflow"/>
  <rmon xmlns="urn:brocade.com:mgmt:brocade-rmon"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/rmon"/>
  <udld xmlns="urn:brocade.com:mgmt:brocade-udld"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/udld"/>
  </TenGigabitEthernet>
  <FortyGigabitEthernet
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22125/4/6%22">
  <name>125/4/6</name>
  <deviceconnectivity
xmlns="urn:brocade.com:mgmt:brocade-maps">NAS</deviceconnectivity>
  </FortyGigabitEthernet>
  <Port-channel y:self="/rest/config/running/interface/Port-channel/6144">
  <name>6144</name>
  <vlag y:self="/rest/config/running/interface/Port-channel/6144/vlag"/>
  <fcoeport xmlns="urn:brocade.com:mgmt:brocade-fcoe"
y:self="/rest/config/running/interface/Port-channel/6144/fcoeport"/>
  <minimum-links>2</minimum-links>
  <load-balance>dst-mac-vid</load-balance>
  </Port-channel>
  <FibreChannel xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FibreChannel/%2254/0/6%22">
  <name>54/0/6</name>
  <trunk-enable>true</trunk-enable>
  <config-mode>nport</config-mode>
  <fec-enable>true</fec-enable>
  <shutdown>true</shutdown>
  </FibreChannel>
  <Fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Fcoe/%221/122/59%22">
  <fcoe-interface-name>1/122/59</fcoe-interface-name>
  <bind y:self="/rest/config/running/interface/Fcoe/%221/122/59%22/bind"/>
  </Fcoe>
</interface>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API call was modified to include the parameters <i>shutdown</i> and <i>deviceconnectivity</i> .

interface/{interface-type}/{interface-name}/bfd

Configures, modifies, or retrieves BFD sessions.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/bfd	Creates a BFD session on this interface Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/bfd/interval	Configures the BFD desired minimum transmit interval

Parameters

Name	Description
<i>min-tx</i>	Specifies the interval a device waits to send a control packet to BFD peers. The value is in milliseconds. The value can range from 50 to 30000 milliseconds. The default value is 500 on Brocade VDX 6740, VDX 6740T, and VDX 6940 platforms. The default value is 200 on Brocade VDX 8770 platforms
<i>min-rx</i>	Specifies the interval a device waits to receive a control packet from BFD peers. The value is in milliseconds. The value can range from 50 through 30000 milliseconds. The default value is 500 on Brocade VDX 6740, VDX 6740T, and VDX 6940 platforms. The default value is 200 on Brocade VDX 8770 platforms
<i>multiplier</i>	Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The value can range from from 3 through 50. The default value is 3
<i>shutdown</i>	Disables the BFD session

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/bfd
```

Request body

None

Response body

```
<bfd xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/bfd">
```

```

    <interval
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/bfd/interv
al">
    <min-tx>60</min-tx>
    <min-rx>60</min-rx>
    <multiplier>4</multiplier>
</interval>
    <shutdown>>true</shutdown>
</bfd>

```

The following is an example of the PUT operation to configure the BFD minimum transmit interval.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/bfd/interval
```

Request body

```

<interval>
    <min-tx>55</min-tx>
    <min-rx>750</min-rx>
    <multiplier>30</multiplier>
</interval>

```

Response body

None

The following is an example of the DELETE operation to remove the BFD minimum transmit interval.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/bfd/interval
```

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.

interface/{interface-type}/{interface-name}/bpu-drop

Configures, modifies, or retrieves all drop received BPDUs.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/bpu-drop	Drop received BPDUs Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
<i>enable</i>	Enables BPU-drop
<i>direction</i>	Specifies the tunneling direction. Possible configurations are tx, rx and all. Configuring tx disables tunneling in the transmit direction. Configuring rx disables tunneling in the transmit direction. Configuring all disables tunneling in both the transmit and receive directions

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22125/4/12%22/bpu-drop
```

Request body

None

Response body

```
<bpu-drop xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22125/4/12%22/bpu-drop"/>
  <enable>true</enable>
  <direction>all</direction>
</bpu-drop>
```

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/channel-group

Configures, modifies, or retrieves LACP channel commands.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/channel-group	LACP channel commands Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
<i>port-int</i>	Specifies a Link Aggregation Group (LAG) port channel-group number to which this link should administratively belong to. The value can range from 1 through 6144
<i>mode</i>	Specifies the mode of Link Aggregation. Possible configurations are active , on and passive . Configuring active enables the initiation of LACP negotiation on an interface. Configuring on enables static link aggregation on an interface. Configuring passive disables LACP on an interface
<i>type</i>	Specifies the type of LAG. Possible configurations are brocade and standard . Configuring brocade sets the Brocade proprietary hardware-based trunking. Configuring standard sets the 802.3ad standard-based LAG

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/10%22/channel-group
```

Request body

None

Response body

```
<channel-group xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/10%22/chann
el-group">
  <port-int>55</port-int>
  <mode>active</mode>
  <type>standard</type>
</channel-group>
```

The following is an example of the DELETE operation to remove the channel-group configuration.

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URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet%221/0/6%22/channel-group`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/dot1x

Configures, modifies, or retrieves IEEE 802.1X Port-Based Access Control.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/dot1x	IEEE 802.1X Port-Based Access Control Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/dot1x/timeout	Sets the timeout parameter

Parameters

Name	Description
<i>authentication</i>	Enables dot1x on a port
<i>port-control</i>	Sets the port control command. Supported configurations are auto , force-authorized and force-unauthorized . Configuring auto enables authentication on a port. The controlled port is unauthorized until authentication takes place between the client and authentication server. Once the client passes authentication, the port becomes authorized. This has the effect of activating authentication on an 802.1x-enabled interface. Configuring force-authorized forces a port to remain in an authorized state. This also allows connection from multiple clients. Configuring a force-unauthorized forces a port to remain in an unauthorized state
<i>protocol-version</i>	Specifies the EAPOL version. The version can be set to 1 or 2. By default, the protocol version is set to 2
<i>quiet-period</i>	Specifies the time between attempts at authentication. The value can range from 1 through 65535 seconds
<i>reauthMax</i>	Specifies the maximum number of reauthentication attempts before the port goes to the unauthorized state. The value can range from 1 through 10. The default value is 2
<i>reauthentication</i>	Enables reauthentication on a port
<i>re-authperiod</i>	Specifies the seconds between reauthorization attempts. The value can range from 1 through 4294967295 seconds. The default value is 3600 seconds
<i>server-timeout</i>	Specifies the number of seconds that a switch waits for the response from the 802.1X authentication server. The value can range from 1 through 65535 seconds. The default value is 30 seconds
<i>supp-timeout</i>	Specifies the number of seconds that the switch waits for a response to the EAP frame. The value can range from 1 through 65535 seconds. The default value is 30 seconds
<i>tx-period</i>	Specifies the time between successive request ID attempts. The value can range from 1 through 65535. The default transmission period is 30 seconds

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

NOTE

In the timeout parameter you can configure only one value at a given point of time.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/10%22/dot1x
```

Request body

None

Response body

```
<dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/10%22/dot1x">
  <authentication>true</authentication>
  <port-control>force-unauthorized</port-control>
  <protocol-version>1</protocol-version>
  <quiet-period>65</quiet-period>
  <reauthMax>3</reauthMax>
  <reauthentication>true</reauthentication>
  <timeout
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/10%22/dot1x/timeout">
    <re-authperiod>3605</re-authperiod>
    <server-timeout>35</server-timeout>
    <supp-timeout>40</supp-timeout>
    <tx-period>45</tx-period>
  </timeout>
</dot1x>
```

The following is an example of the PUT operation to configure the timeout parameter.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/dot1x/timeout
```

Request body

```
<timeout>
  <re-authperiod>3605</re-authperiod>
</timeout>
```

Response body

None

The following is an example of the DELETE operation to remove the number of reauthentication attempts configuration.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/dot1x/reauthMax`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ edge-loop-detection

Configures, modifies, or retrieves edge-loop-detection on the selected interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/edge-loop-detection	Enable edge-loop-detection on the selected interface Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
port-priority	Specifies the port priority. The value can range from 0 through 256. The default value is 128
vlan	Specifies the VLAN ID

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/10%22/edge-loop-detection
```

Request body

None

Response body

```
<edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/10%22/edge-loop-detection">
  <port-priority>120</port-priority>
  <vlan>1</vlan>
</edge-loop-detection>
```

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/fabric

Configures, modifies, or retrieves the Fabric Protocol parameters.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric	Fabric Protocol parameters Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet Note: GigabitEthernet supports neighbor discovery only.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/dport/mode	Configures a Layer 3 Ethernet interface to support static or dynamic diagnostic port (D_Port) testing
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/isl	Enables fabric ISL status
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/neighbor-discovery	Enables neighbor discovery at this port
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/trunk	Enables fabric trunk status

Parameters

Name	Description
<i>isl</i>	Enables fabric ISL status
<i>enable</i>	Enables fabric ISL status or fabric trunk status
<i>disable</i>	Disables neighbor discovery for this port
<i>trunk</i>	Enables fabric trunk status
<i>mode</i>	Specifies the D_port mode. Supported configurations are dynamic , none , and static . Configuring dynamic enables the interface to support dynamic D_Port testing. Configuring none disables D_Port testing support for the interface irrespective of the configuration on the other end of the link. Configuring static enables the interface to support static D_Port testing

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabric
```


Request body

None

Response body

```
<fabric xmlns="urn:brocade.com:mgmt:brocade-fcoe"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabri
c">
  <isl
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabri
c/isl">
    <enable>true</enable>
  </isl>
  <trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabri
c/trunk">
    <enable>true</enable>
  </trunk>
  <dport
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabri
c/dport">
    <mode>static</mode>
  </dport>
  <neighbor-discovery
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabri
c/neighbor-discovery">
    <disable>true</disable>
  </neighbor-discovery>
</fabric>
```

The following is an example of the POST operation to enable fabric trunk status.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/fabr
ic/trunk
```

Request body

```
<enable>true</enable>
```

Response body

None

The following is an example of the DELETE operation to disable fabric ISL status.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/fabr
ic/isl
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
7.0.0	The API call was modified to include the new URI: <base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/dport /mode

interface/{interface-type}/{interface-name}/fcoeport

Configures, modifies, or retrieves the port to be an FCoE port.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fcoeport	Configure the port to be an FCoE port Supported interface types are: Port-Channel, FortyGigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
fcoeport-map	Specifies the name of the FCoE fabric map
ns-ip-registration	Enables RIP_NN request

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/fcoeport
```

Request body

None

Response body

```
<fcoeport xmlns="urn:brocade.com:mgmt:brocade-fcoe"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/fcoeport">
  <fcoeport-map>default</fcoeport-map>
  <ns-ip-registration>true</ns-ip-registration>
</fcoeport>
```

The following is an example of the POST operation to add an FCoE port.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/fcoeport
```

Request body

```
<map>default</map>
```

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Response body

None

The following is an example of the DELETE operation to remove a FCoE port.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/fcoe  
port
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
7.0.0	The API call was modified to include the parameter <i>ns-ip-registration</i> .

interface/{interface-type}/{interface-name}/ip

Configures, modifies, or retrieves the interface Internet Protocol (IP).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip	The Internet Protocol (IP) Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/access-group	Configures IP access group
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/address	Sets the IP address of an interface
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/arp	Configures ARP inspection
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/dhcp	Configures Dynamic Host Configuration Protocol (DHCP)
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/icmp	Configures Internet Control Message Protocol (ICMP)
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/igmp	Configures Internet Group Management Protocol (IGMP)
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf	Configures Open Shortest Path First (OSPF)
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/pim	Configures PIM
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy	Configures PBR

Parameters

Name	Description
<i>address</i>	Configures the IP address of the DHCP server. Refer to interface/{interface-type}/{interface-name}/ip/arp for more information
<i>policy</i>	Configures PBR settings. Refer to interface/{interface-type}/{interface-name}/ip/policy for more information
<i>access-group</i>	Configures IP access group parameters. Refer to interface/{interface-type}/{interface-name}/ip/access-group for more information
<i>ospf</i>	Configures the Open Shortest Path First (OSPF) parameters. Refer to interface/{interface-type}/{interface-name}/ip/ospf for more information
<i>icmp</i>	Configures Internet Control Message Protocol (ICMP) parameters. Refer to interface/{interface-type}/{interface-name}/ip/icmp for more information
<i>dhcp</i>	Configures Dynamic Host Configuration Protocol (DHCP) parameters. Refer to interface/{interface-type}/{interface-name}/ip/dhcp for more information

Name	Description
<i>arp</i>	Configures Arp Inspection parameters. Refer to interface/{interface-type}/{interface-name}/ip/arp for more information
<i>mtu</i>	Sets IP MTU value to interface
<i>directed-broadcast</i>	Enables directed IP broadcasts forwarding
<i>proxy-arp</i>	Enables proxy ARP
<i>arp-aging-timeout</i>	Determines how long an ARP entry stays in cache. The timeout value can range from 0 through 240 minutes
<i>pim-sparse</i>	Enables PIM sparse mode
<i>pim</i>	Configures PIM parameters. Refer to interface/{interface-type}/{interface-name}/ip/pim for more information
<i>multicast-boundary</i>	Specifies the name of a prefix list. The value can range from 1 through 63 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (_), or minus signs (-)
<i>igmp</i>	Configures Internet Group Management Protocol (IGMP) parameters. Refer to interface/{interface-type}/{interface-name}/ip/igmp for more information

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip
```

Request body

None

Response body

```
<ip xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip">
  <address xmlns="urn:brocade.com:mgmt:brocade-ip-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/address/%22192.168.10.1/24%22/address"/>
    <policy
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/policy"/>
      <access-group xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/access-group/acl8%2Cin"/>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf"/>
          <icmp
y:self="/rest/config/running/interface/Management/%22195/1/7%22/ip/icmp"/>
```

```

    <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/dhcp"
/>
    <arp xmlns="urn:brocade.com:mgmt:brocade-dai"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/arp" /
>
    <mtu xmlns="urn:brocade.com:mgmt:brocade-ip-config">1600</mtu>
    <directed-broadcast
xmlns="urn:brocade.com:mgmt:brocade-ip-config">true</directed-broadcast>
    <proxy-arp xmlns="urn:brocade.com:mgmt:brocade-ip-config">true</proxy-arp>
    <arp-aging-timeout
xmlns="urn:brocade.com:mgmt:brocade-ip-config">10</arp-aging-timeout>
    <pim-sparse xmlns="urn:brocade.com:mgmt:brocade-pim">true</pim-sparse>
    <pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/pim" /
>
    <multicast-boundary
xmlns="urn:brocade.com:mgmt:brocade-pim">true</multicast-boundary>
    <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/igmp"
/>
</ip>

```

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ip/access-group

Configures, modifies, or retrieves the Internet Protocol (IP) access group.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/access-group	Configures IP access group Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
<i>ip-access-list</i>	Specifies the ACL name
<i>ip-direction</i>	Specifies the IP direction. Supported configurations are in and out . Configuring in sets the ACL binding direction as ingress. Configuring out sets the ACL binding direction as egress

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

NOTE

IP access-list should be created before configuring interface/ip/access-group.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/access-group
```

Request body

None

Response body

```
<access-group xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/access-group/acl%2Cin">
  <ip-access-list>acl</ip-access-list>
  <ip-direction>in</ip-direction>
</access-group>
```

The following is an example of the POST operation to add an access-group.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/221/0/522/ip
```


Request body

```
<access-group>
  <ip-access-list>acl8</ip-access-list>
  <ip-direction>in</ip-direction>
</access-group>
```

Response body

None

The following is an example of the DELETE operation to remove the access-group configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ip/a
ccess-group
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ip/address

Configures, modifies, or retrieves the Internet Protocol (IP) address of an interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/address	Sets the IP address of an interface Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
address	Specifies the IP address in the format A.B.C.D/M
ospf-passive	Disables adjacency formation with OSPF neighbors but does not disable advertisement of the interface to OSPF
secondary	Specifies that the configured address is a secondary IP address. If this keyword is omitted, the configured address is the primary IP address
ospf-ignore	Disables adjacency formation with OSPF neighbors and advertisement of the interface to OSPF

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/address
```

Request body

None

Response body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ip-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/address/%22192.168.10.1/24%22">
  <address>192.168.10.1/24</address>
  <ospf-ignore>true</ospf-ignore>
</address>
```

The following is an example of the POST operation to add a IP address.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/221/0/5/22/ip`

Request body

```
<address>
  <address>192.168.10.1/24</address>
  <ospf-ignore>true</ospf-ignore>
</address>
```

Response body

None

The following is an example of the DELETE operation to remove the IP address configuration.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/221/0/5/22/ip/address`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ip/arp

Configures, modifies, or retrieves the ARP inspection.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/arp	Configures ARP inspection Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/arp/inspection	Sets the ARP inspection flag

Parameters

Name	Description
trust	Sets the interface as trusted
learn-any	Enables ARP learning from any ARP request

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/arp
```

Request body

None

Response body

```
<arp xmlns="urn:brocade.com:mgmt:brocade-dai"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/arp">
  <inspection
y:self="/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/arp/inspection">
    <trust>true</trust>
  </inspection>
  <learn-any>true</learn-any>
</arp>
```

The following is an example of the POST operation to enable ARP inspection.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet%226/0/1%22/ip/arp/inspection`

Request body

`<trust>true</trust>`

Response body

None

The following is an example of the DELETE operation to disable ARP inspection.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet%226/0/1%22/ip/arp/inspection`

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.
7.0.0	The API call was modified to include the parameter <i>learn-any</i>

interface/{interface-type}/{interface-name}/ip/dhcp

Configures, modifies, or retrieves the Dynamic Host Configuration Protocol (DHCP).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/dhcp	Configures Dynamic Host Configuration Protocol (DHCP) Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/dhcp/relay	Configures DHCP relay agent
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/dhcp/relay/servers	Configures DHCP servers

Parameters

Name	Description
address	Specifies the IPv4 address of the DHCP server where the DHCP client requests are to be forwarded
use-vrf	Use this option if the VRF where the DHCP server is located is different from the VRF of the interface where the client is connected. Specifies the VRF name
gateway	Specifies the IPv4 gateway address of the DHCP server where the DHCP client requests are to be forwarded

Usage guidelines

GET, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/dhcp
```

Request body

None

Response body

```
<dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/dhcp"
>
  <relay
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/dhcp/relay">
```

```

    <servers
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/dhcp/
relay/servers/10.24.25.26%2Cmgmt-vrf">
    <address>10.24.25.26</address>
    <use-vrf>mgmt-vrf</use-vrf>
    </servers>
    <gateway>1.1.1.1</gateway>
  </relay>
</dhcp>

```

The following is an example of the POST operation to add a DHCP server address.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ip/dhcp/relay
```

Request body

```

<servers>
  <address>1.1.1.1</address>
  <use-vrf>mgmt-vrf</use-vrf>
</servers>

```

Response body

None

The following is an example of the DELETE operation to remove the IP address configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ip/dhcp/relay/servers
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ip/icmp

Configures, modifies, or retrieves the Internet Control Message Protocol (ICMP).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/icmp	Configures Internet Control Message Protocol (ICMP) Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
<i>unreachable</i>	Enables destination unreachable messages
<i>redirect</i>	Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages
<i>address-mask</i>	Enables ICMP address mask
<i>echo-reply</i>	Enables echo-reply
<i>rate-limiting</i>	Specifies the time interval per ICMP packet in milliseconds. The interval can range from 1 through 4294967295. The default value is 1000 milliseconds

Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/icmp
```

Request body

None

Response body

```
<icmp y:self="/rest/config/running/interface/Management/%22195/1/7%22/ip/icmp">
  <unreachable>true</unreachable>
  <echo-reply>true</echo-reply>
  <redirect>true</redirect>
  <address-mask>true</address-mask>
  <rate-limiting>10</rate-limiting>
</icmp>
```

The following is an example of the PUT operation to add rate limit ICMP error messages.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet%221/0/5%22/ip/icmp`

Request body

```
<icmp>
  <rate-limiting>10</rate-limiting>
</icmp>
```

Response body

None

The following is an example of the DELETE operation to remove the ICMP configuration.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet%221/0/5%22/ip/icmp`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ip/igmp

Configures, modifies, or retrieves the Internet Group Management Protocol (IGMP).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/igmp	Configures Internet Group Management Protocol (IGMP) Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
<i>last-member-query-count</i>	Specifies the last member query count value. The value can range from 2 through 10. The default value is 2
<i>last-member-query-interval</i>	Specifies the last member query interval in milliseconds. The interval can range from 100 through 25500. The default value is 1000 milliseconds
<i>query-interval</i>	Specifies the response time in seconds. The interval can range from 1 through 18000 seconds. The default value is 125 seconds
<i>query-max-response-time</i>	Specifies IGMP query maximum response time in seconds. The response time can range from 1 through 25 seconds. By default, the response time is set to 10 seconds
<i>robustness-variable</i>	Specifies the robustness value. The value can range from 2 through 10. The default value is 2
<i>immediate-leave</i>	Enables immediate leave processing
<i>startup-query-count</i>	Specifies the startup query count value. The value can range from 1 through 10. The default value is 2
<i>startup-query-interval</i>	Specifies the startup query interval value. The value can range from 1 through 450. The default value is 1

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/igmp
```

Request body

None

Response body

```
<igmp xmlns="urn:brocade.com:mgmt:brocade-igmp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/igmp"
/>
  <last-member-query-count>3</last-member-query-count>
  <last-member-query-interval>600</last-member-query-interval>
  <query-interval>500</query-interval>
  <query-max-response-time>20</query-max-response-time>
  <immediate-leave>true</immediate-leave>
  <robustness-variable>3</robustness-variable>
  <startup-query-count>3</startup-query-count>
  <startup-query-interval>10</startup-query-interval>
</igmp>
```

The following is an example of the PUT operation to configure IGMP max query response time.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ip/i
gmp
```

Request body

```
<igmp>
  <query-max-response-time>20</query-max-response-time>
</igmp>
```

Response body

None

The following is an example of the DELETE operation to remove last member query interval.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ip/i
gmp/last-member-query-interval
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
7.0.0	The API call was modified to include the parameters <i>last-member-query-count</i> , <i>startup-query-count</i> , <i>robustness-variable</i> , and <i>startup-query-interval</i>

interface/{interface-type}/{interface-name}/ip/ospf

Configures, modifies, or retrieves the Open Shortest Path First (OSPF).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf	Configures Open Shortest Path First (OSPF). Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/area	Configures OSPF areas
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/authentication-key	Configures authentication password
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/bfd	Sets BFD operation on this interface
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/database-filter	Filters OSPF LSA during synchronization and flooding
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/md5-authentication	Configures MD5 authentication parameters

Parameters

Name	Description
<i>area</i>	Specifies the area id in IP address or decimal format
<i>dead-interval</i>	Specifies interval after which a neighbor is declared dead. The interval can range from 3 through 65535 seconds
<i>hello-interval</i>	Specifies the time interval between hello packets. The time interval can range from 1 through 65535
<i>retransmit-interval</i>	Specifies the retransmit interval in seconds. The interval can range from 0 through 3600 seconds. The default value is 5 seconds
<i>transmit-delay</i>	Specifies the transmit delay in seconds. The value can range from 0 through 3600 seconds. The default value is 1 second
<i>key-activation-wait-time</i>	Specifies the time that OSPF waits before activating a new key. Time OSPF waits before activating a new MD5 key. This parameter provides a graceful transition from one MD5 key to another without disturbing the network. All new packets transmitted after the wait time ends will use the newly configured MD5 Key. OSPF packets that contain the old MD5 key are accepted for up to five minutes after the new MD5 key is in operation. The wait time can range from 0 through 14400 seconds. The default value is 300 seconds

Name	Description
<i>key-id</i>	Specifies MD5 authentication key ID table. MD5 key and OSPF password. The value can range from 1 through 255. This parameter is required to differentiate among multiple keys defined on a router. When MD5 is enabled, the key is an alphanumeric password of up to 16 characters that is later encrypted and included in each OSPF packet transmitted. You must enter a password in this field when the system is configured to operate with either simple or MD5 authentication. By default, the MD5 authentication key is encrypted
<i>key</i>	Specifies the encryption key. Possible configurations are 0 , 2 and 255 . Configuring 0 sets no encryption. OSPF processes password as a plain text password. Configuring 2 expects the user to provide the encrypted password, preceded by a dollar sign (\$). Configuring 255 expects the user to provide the encrypted password, and 255 internally maps to 2
<i>md5-authentication-key</i>	Specifies the OSPF password
<i>cost</i>	Specifies the interface cost. The value can range from 1 through 65535
<i>all-external</i>	Blocks all external LSAs. Supported configurations are allow-default-and-type4-out , allow-default-out and out . Configuring allow-default-and-type4-out allows default-route LSAs and Type 4 LSAs, but block all other LSAs. Configuring allow-default-out allows default-route LSAs, but block all other LSAs. Configuring out filters outgoing LSAs
<i>mtu-ignore</i>	Disables OSPF MTU mismatch detection
<i>network</i>	Specifies the network type. Supported configurations are broadcast , non-broadcast and point-to-point . Configuring broadcast sets network type as broadcast, such as Ethernet. Configuring non-broadcast sets the network type as point-to-point. Configuring point-to-point sets to point-to-point interface mode
<i>passive</i>	Enables passive information
<i>priority</i>	Specifies the priority value. The value can range from 0 through 255
<i>intf-bfd-enable</i>	Enables BFD operation mode (Not supported for Loopback interface).

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf
```

Request body

None

Response body

```
<ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf"
>
  <area>1.1.1.1</area>
```

```

    <authentication-key
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
authentication-key">
    </authentication-key>
    <dead-interval>550</dead-interval>
    <hello-interval>250</hello-interval>
    <retransmit-interval>500</retransmit-interval>
    <transmit-delay>1000</transmit-delay>
    <md5-authentication
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
md5-authentication">
    <key-activation-wait-time>230</key-activation-wait-time>
    <key-id
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
md5-authentication/key-id">
    <key-id>25</key-id>
    <key>2</key>
    <md5-authentication-key>$b24tbw==</md5-authentication-key>
    </key-id>
    </md5-authentication>
    <cost>550</cost>
    <database-filter
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
database-filter">
    <all-external>allow-default-out</all-external>
    </database-filter>
    <mtu-ignore>true</mtu-ignore>
    <network>broadcast</network>
    <passive>true</passive>
    <priority>22</priority>
    <bfd
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
bfd">
    <intf-bfd-enable>true</intf-bfd-enable>
    </bfd>
</ospf>

```

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/bfd.
6.0.1a	The API call was modified to remove the support for the following URI <base_URI>/config/running/rbridge-id/{rbridge-number}/interface/Loopback/{interface-name}/ip/ospf/bfd.

interface/{interface-type}/{interface-name}/ip/pim

Configures, modifies, or retrieves the PIM configuration.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/pim	Configures PIM Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
<i>t11-threshold</i>	Configures TTL threshold value
<i>dr-priority</i>	Specifies the DR priority value. The value can range from 0 through 65535. The default value is 1

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/pim
```

Request body

None

Response body

```
<pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/pim">
  <dr-priority>15</dr-priority>
  <t11-threshold>10</t11-threshold>
  <neighbor-filter>Prefix1</neighbor-filter>
</pim>
```

The following is an example of the PUT operation to configure neighbor filter.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/226/0/222/ip/pim
```

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Request body

```
<pim>  
  <neighbor-filter>test1</neighbor-filter>  
  <dr-priority>45</dr-priority>  
</pim>
```

Response body

None

The following is an example of the DELETE operation to remove the neighbor filter configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/226/0/22/ip/pim/neighbor-filter
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ip/policy

Configures, modifies, or retrieves the PBR configuration.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy	Configures PBR Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy/route-map	Enables PBR

Parameters

Name	Description
route-map-name	Specifies the name of the route-map

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/policy
```

Request body

None

Response body

```
<policy
y:self="/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/policy">
  <route-map
y:self="/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ip/policy/route-map">
    <route-map-name>map12</route-map-name>
  </route-map>
</policy>
```

The following is an example of the PUT operation to configure a route-map.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/221/0/522/ip/policy/route-map
```

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Request body

```
<route-map>  
  <route-map-name>map12</route-map-name>  
</route-map>
```

Response body

None

The following is an example of the DELETE operation to remove last member query interval.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/221/0/5/ip/p  
olicy/route-map
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ip/unnumbered

Designates the interface as an unnumbered IP interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/unnumbered	Configures PBR Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet

Parameters

Name	Description
<i>ip-donor-interface-type</i>	Specifies the interface type
<i>ip-donor-interface-name</i>	Specifies the interface name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22103/4/10%22/ip/unnumbered
```

Request body

None

Response body

```
<unnumbered xmlns="urn:brocade.com:mgmt:brocade-ip-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22103/4/10%22/ip/unnumbered">
  <ip-donor-interface-type>ve</ip-donor-interface-type>
  <ip-donor-interface-name>1</ip-donor-interface-name>
</unnumbered>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ipv6

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6	The Internet Protocol version 6 (IPv6) Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/access-group	Configures IPv6 access group
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/address	Configures IPv6 address on an interface
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/dhcp	Configures Dynamic Host Configuration Protocol V6 (DHCPv6)
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/icmpv6	Configures Internet Control Message Protocol(ICMP6)
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd	Neighbor Discovery commands
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/neighbor	Neighbor Discovery commands
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf	Configures Open Shortest Path First version 3 (OSPFv3)
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/policy	Configures PBR
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/vrrp-group	Starts vrrpv3 configuration

Parameters

Name	Description
<i>mtu</i>	Specifies the IPv6 MTU in bytes. The value can range 576 through 9018 bytes. The default value is 1500 bytes
<i>hop-by-hop-trap</i>	Enables hop-by-hop trap on an interface
<i>vrrp-suppress-interface-ra</i>	Suppresses interface router advertisement (RA) when VRRPv3 is configured on an interface
<i>raguard</i>	Enables RA Guard
<i>access-group</i>	Configures the Internet Protocol version 6 (IPv6) access group parameters. Refer to interface/{interface-type}/{interface-name}/ipv6/access-group for more information
<i>address</i>	Configures the Internet Protocol version 6 (IPv6) address parameters. Refer to interface/{interface-type}/{interface-name}/ipv6/address for more information

Name	Description
<i>dhcp</i>	Configures the IPv6 Dynamic Host Configuration Protocol V6 parameters. Refer to interface/{interface-type}/{interface-name}/ipv6/dhcp for more information
<i>icmpv6</i>	Configures the IPv6 Internet Control Message Protocol(ICMP6) parameters. Refer to interface/{interface-type}/{interface-name}/ipv6/icmpv6 for more information
<i>nd</i>	Configures the IPv6 Neighbor Discovery commands. Refer to interface/{interface-type}/{interface-name}/ipv6/nd for more information
<i>neighbor</i>	Configures the IPv6 Neighbor Discovery commands. Refer to interface/{interface-type}/{interface-name}/ipv6/neighbor for more information
<i>ospf</i>	Configures the IPv6 Open Shortest Path First version 3 (OSPFv3). Refer to interface/{interface-type}/{interface-name}/ipv6/ospf for more information
<i>policy</i>	Configures the IPv6 PBR. Refer to interface/{interface-type}/{interface-name}/ipv6/policy for more information
<i>vrrp-group</i>	Configures the IPv6 VRRPv3 configuration. Refer to interface/{interface-type}/{interface-name}/ipv6/vrrp-group for more information

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6
```

Request body

None

Response body

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6">
  <hop-by-hop-trap>true</hop-by-hop-trap>
  <vrrp-suppress-interface-ra>true</vrrp-suppress-interface-ra>
  <access-group xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/access-group/acl1%2Cin"/>
    <neighbor xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/neighbor/2004:384::21:22"/>
      <nd
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd"/>
        <policy xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/policy"/>
          <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcpv6"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/dhcp"/>
```

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```
<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/add
ress"/>
  <mtu>1281</mtu>
  <raguard xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">true</raguard>
  <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/icm
pv6"/>
  <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/osp
f"/>
  <vrrpv3e-group
y:self="/rest/config/running/TenGigabitEthernet/%22195/1/7%22/vrrpv3-group"/>
</ipv6>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API call was modified to include the parameter <i>raguard</i> .

interface/{interface-type}/{interface-name}/ipv6/ access-group

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6) access group.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/access-group	Configures IPv6 access group Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
<i>ipv6-access-list</i>	Specifies the name of the standard or extended IP access list
<i>ip-direction</i>	Specifies the binding direction.

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ipv6/access-group
```

Request body

None

Response body

```
<access-group xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ipv6/access-group/acl1%2Cin">
  <ipv6-access-list>acl1</ipv6-access-list>
  <ip-direction>in</ip-direction>
</access-group>
```

The following is an example of the POST operation to add an access-group.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/221/0/522/ipv6
```

Request body

```
<access-group>
```

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```
<ipv6-access-list>acl8</ip-access-list>  
<ip-direction>in</ip-direction>  
</access-group>
```

Response body

None

The following is an example of the DELETE operation to remove the access-group configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6  
/access-group
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ipv6/address

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6) address on an interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/address	Configures IPv6 address on an interface Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/address/ipv6-address	Configures IPv6 address

Parameters

Name	Description
address	Specifies the IPv6 address
use-link-local-only	Enables automatic computed link-local address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ipv6/address
```

Request body

None

Response body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
y:self="/rest/config/running/interface/TenGigabitEthernet/22195/1/722/ipv6/address">
  <ipv6-address
y:self="/rest/config/running/interface/FortyGigabitEthernet/221/2/222/ipv6/address/ipv6-address/221:2::2:1/24">
    <address>1:2::2:1/24</address>
    <anycast>true</anycast>
  </ipv6-address>
  <use-link-local-only>true</use-link-local-only>
</address>
```

The following is an example of the POST operation to add a IPv6 address.

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URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet%221/0/5%22/ipv6/address`

Request body

```
<ipv6-address>
  <address>1:2::2:1/22</address>
  <anycast>true</anycast>
</ipv6-address>
```

Response body

None

The following is an example of the DELETE operation to remove the IPv6 address configuration.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet%221/0/5%22/ipv6/address/ipv6-address`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ipv6/dhcp

Configures, modifies, or retrieves the IPv6 Dynamic Host Configuration Protocol V6.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/dhcp	Configures Dynamic Host Configuration Protocol V6 (DHCPv6) Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/dhcp/relay	Configures DHCPv6 relay agent
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/dhcp/relay/servers	Configures IPv6 address of the DHCPv6 server

Parameters

Name	Description
address	Specifies the IPv6 address of the DHCP server where the DHCP client requests are to be forwarded
use-vrf	Use this option if the VRF where the DHCP server is located is different from the VRF of the interface where the client is connected. Specifies the VRF name
interface	The type of interface, such as gigabitEthernet, TengigabitEthernet, FortygigabitEthernet, HundredgigabitEthernet, or Ve interface

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/dhcp
```

Request body

None

Response body

```
<dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcpv6"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/dhcp">
```

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```
<relay
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/dhcp/relay">
  <servers
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/dhcp/relay/servers/1::1">
    <address>1::1</address>
    <use-vrf>mgmt-vrf</use-vrf>
    <interface
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/dhcp/relay/servers/1::1/interface">
      <interface>TenGigabitEthernet</interface>
    </interface>
  </servers>
</relay>
</dhcp>
```

The following is an example of the PUT operation to configure the IPv6 address for the DHCPv6 server.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6/dhcp/relay`

Request body

```
<relay>
  <servers>
    <address>1::1</address>
  </servers>
</relay>
```

Response body

None

The following is an example of the DELETE operation to remove the IPv6 address.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6/dhcp/relay/servers/address`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ipv6/icmpv6

Configures, modifies, or retrieves the IPv6 Internet Control Message Protocol(ICMP6).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/icmpv6	Configures Internet Control Message Protocol(ICMP6) Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
<i>echo-reply</i>	Enables the generation of an IPv6 CMPv6 Echo Reply message
<i>rate-limiting</i>	Specifies the rate limit ICMP error messages. The value can range from 1 through 4294967295 milliseconds. The default value is 1000 milliseconds
<i>unreachable</i>	Prohibits routers from forwarding an IPv6 ICMPv6 destination Unreachable Code 3 message
<i>redirect</i>	Enables IPv6 ICMPv6 redirect messages

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/icmpv6
```

Request body

None

Response body

```
<icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/icmpv6">
  <echo-reply>true</echo-reply>
  <rate-limiting>1100</rate-limiting>
  <unreachable>true</unreachable>
  <redirect>true</redirect>
</icmpv6>
```

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The following is an example of the PUT operation to add rate limit ICMPv6 error messages.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6/icmpv6
```

Request body

```
<icmpv6>
  <rate-limiting>1115</rate-limiting>
</icmpv6>
```

Response body

None

The following is an example of the DELETE operation to remove the ICMPv6 configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ip/icmpv6
```

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.

interface/{interface-type}/{interface-name}/ipv6/nd

Configures, modifies, or retrieves the IPv6 Neighbor Discovery commands.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd	Neighbor Discovery commands Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/suppress-ra	Sets suppress ra flag
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/ra-interval	Configures interval between router advertisements
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/dad	Configures duplicate address detection
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/prefix	Configures IPv6 prefix
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/cache	Configures the time interval after which the cache id deleted or refreshed

Parameters

Name	Description
<i>managed-config-flag</i>	Indicates to hosts on a local link that they must use the stateful autoconfiguration feature to obtain IPv6 addresses for their interfaces
<i>other-config-flag</i>	Indicates to hosts on a local link that they can use the stateful autoconfiguration feature to obtain configuration settings other than IPv6 address information for their interfaces
<i>ra-lifetime</i>	Specifies the time in seconds. The time can range from 0 through 9000. The default value is 1800
<i>reachable-time</i>	Specifies the time in milliseconds. The value can range from 0 through 3600000 milliseconds. The default time is set to 0
<i>mtu</i>	Specifies the size, in bytes, of the MTU that is advertised. The value can range from 1280 through 65535. The default value is 1500
<i>retrans-timer</i>	Specifies the interval in milliseconds, at which NS messages are sent. The interval can range from 0 through 4294967295. The default interval is set to 0
<i>hoplimit</i>	Specifies the number of hops to be advertised. The number can range from 0 through 255. The default value is 64
<i>ns-interval</i>	Specifies the number of seconds between neighbor solicitation messages. The value can range from 1 through 5 seconds. The default value is 1 second
<i>proxy</i>	Enables proxy setting
<i>all</i>	Suppresses response to RS in addition to not sending Ras

Name	Description
<i>max-interval</i>	Specifies the maximum interval range in seconds. The interval can range from 4 through 1800 seconds. The default interval is set from 200 through 600, with messages sent randomly within that interval
<i>min</i>	Specifies the minimum interval in seconds. The interval can range from 0 through 1800. The default interval is set to 200 seconds
<i>attempts</i>	Specifies the number of solicitations. The value can range from 0 through 10. By default, the value is set to 2
<i>time</i>	Specifies the time in seconds. The value can range from 1 through 5. The default value is 1
<i>prefix-ipv6-address</i>	Specifies the IPv6 prefix in hexadecimal with 16-bit values between colons
<i>infinite</i>	Enables infinite valid lifetime
<i>preferred-lifetime</i>	Configures valid lifetime in seconds
<i>expire</i>	Specifies the time interval in minutes. The interval can range from 1 through 240 minutes. The default value is 240 minutes
<i>broadcast-mac-trap</i>	Enables the trap for all the IPv6 packets with broadcast mac
<i>suppress-ra</i>	Disables the sending of ICMPv6 Router Advertisement (RA) messages. Supported configurations are all and mtu . Configuring all disables the sending of all RA messages, including those sent in response to a solicitation. Configuring mtu disables the sending of MTUs in RA messages

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd
```

Request body

None

Response body

```
<nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd"
>
  <managed-config-flag>true</managed-config-flag>
  <other-config-flag>true</other-config-flag>
  <ra-lifetime>1900</ra-lifetime>
  <reachable-time>1</reachable-time>
  <mtu>1600</mtu>
  <retrans-timer>2</retrans-timer>
  <hoplimit>65</hoplimit>
  <ns-interval>2</ns-interval>
  <proxy>true</proxy>
```



```

    <suppress-ra
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd/
suppress-ra">
    <all>true</all>
  </suppress-ra>
  <ra-interval
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd/
ra-interval">
    <max-interval>650</max-interval>
    <min>250</min>
  </ra-interval>
  <dad
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd/
dad">
    <attempts>3</attempts>
    <time>2</time>
  </dad>
  <prefix xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd/
prefix/%222ffe:1111::/64%22">
    <prefix-ipv6-address>2ffe:1111::/64</prefix-ipv6-address>
    <infinite>true</infinite>
    <preferred-lifetime>10</preferred-lifetime>
  </prefix>
  <cache
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd/
cache">
    <expire>220</expire>
  </cache>
  <broadcast-mac-trap>true</broadcast-mac-trap>
</nd>

```

The following is an example of the PUT operation to add the Duplicate Address Detection configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6/nd/dad
```

Request body

```

<dad>
  <attempts>3</attempts>
  <time>2</time>
</dad>

```

Response body

None

The following is an example of the DELETE operation to remove the maximum interval between router advertisements.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6/nd/ra-interval/max-interval
```

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Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API call was modified to include the parameter <i>broadcast-mac-trap</i> .

interface/{interface-type}/{interface-name}/ipv6/neighbor

Configures, modifies, or retrieves the IPv6 Neighbor Discovery commands.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/neighbor	Neighbor Discovery commands Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
ipv6-address	Configures neighbor IPv6 addresses
hardware-address	Configures the MAC address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/neighbor
```

Request body

None

Response body

```
<neighbor xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/neighbor/2ffe:1111::">
  <ipv6-address>2ffe:1111::</ipv6-address>
  <hardware-address>0011.2222.2233</hardware-address>
</neighbor>
```

The following is an example of the POST operation to add the neighbor configurations.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6
```

Request body

```
<neighbor>
```

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```
<ipv6-address>2ffe:1111::</ipv6-address>  
<hardware-address>0011.2222.2233</hardware-address>  
</neighbor>
```

Response body

None

The following is an example of the DELETE operation to remove the neighbor configurations.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6  
/neighbor
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ipv6/ospf

Configures, modifies, or retrieves the IPv6 Open Shortest Path First version 3 (OSPFv3).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf	Configures Open Shortest Path First version 3 (OSPFv3) Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf/bfd	Sets BFD operation mode on this interface
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf/authentication	Configures authentication for this interface

Parameters

Name	Description
<i>area</i>	Specifies area address in dotted decimal format or IPv6 address
<i>passive</i>	Sets a specific OSPFv3 interface to passive
<i>bfd-enable</i>	Enables BFD on a specific OSPFv3 interface
<i>cost</i>	Specifies the cost value. The values can range from 1 through 65535. The default value is 1
<i>instance</i>	Specifies the Instance identification number. The values can range from 0 through 255
<i>mtu-ignore</i>	Enables maximum transmission unit (MTU) match checking
<i>network</i>	Specifies the network type. Supported configurations are broadcast and point-to-point . Configuring broadcast sets the network type as broadcast, such as Ethernet. Configuring point-to-point sets the network type is point-to-point
<i>priority</i>	Specifies the priority value. The values can range from 0 through 255. The default value is 1
<i>suppress-linklsa</i>	Suppresses link LSA advertisements
<i>disable</i>	Disables ipsec authentication
<i>key-add-remove-interval</i>	Configures OSPFv3 authentication key add/remove interval
<i>hello-interval</i>	Specifies the hello interval in seconds. The values can range from 1 through 65535 seconds. The default interval is 10 seconds
<i>dead-interval</i>	Specdifies the dead interval in seconds. The value can range from 3 through 65535 seconds. The default interval is 40 seconds
<i>hello-jitter</i>	Specifies the allowed interval between hello packets. The values can range from 1 through 50 percent (%)

Name	Description
<i>retransmit-interval</i>	Specifies the retransmit interval in seconds. The values can range from 0 through 3600 seconds. The default value is 5 seconds
<i>transmit-delay</i>	Specifies the transmit delay in seconds. The values can range from 0 through 3600 seconds. The default value is 1 second

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/ospf
```

Request body

None

Response body

```
<ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/ospf">
  <area>2.2.2.2</area>
  <passive>true</passive>
  <bfd
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/ospf/bfd">
    <bfd-enable>true</bfd-enable>
  </bfd>
  <cost>55</cost>
  <instance>25</instance>
  <mtu-ignore>true</mtu-ignore>
  <network>point-to-point</network>
  <priority>2</priority>
  <suppress-linklsa>true</suppress-linklsa>
  <authentication
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/ospf/authentication">
    <ipsec
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/ospf/authentication/ipsec">
      <disable>true</disable>
      <key-add-remove-interval>350</key-add-remove-interval>
    </ipsec>
  </authentication>
  <hello-interval>15</hello-interval>
  <dead-interval>45</dead-interval>
  <hello-jitter>15</hello-jitter>
  <retransmit-interval>10</retransmit-interval>
  <transmit-delay>2</transmit-delay>
</ospf>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf/bfd.
6.0.1a	The API call was modified to remove the support for the following URI <base_URI>/config/running/rbridge-id/{rbridge-number}/interface/Loopback/{interface-name}/ipv6/ospf/bfd.

interface/{interface-type}/{interface-name}/ipv6/policy

Configures, modifies, or retrieves the IPv6 PBR.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/policy	Configures PBR Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/policy/route-map	Enables PBR

Parameters

Name	Description
route-map-name	Specifies the route-map name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/policy
```

Request body

None

Response body

```
<policy
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/policy">
  <route-map
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/policy/route-map">
    <route-map-name>map12</route-map-name>
  </route-map>
</policy>
```

The following is an example of the PUT operation to configure a route-map.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6/policy/route-map
```


Request body

```
<route-map>
  <route-map-name>map14</route-map-name>
</route-map>
```

Response body

None

The following is an example of the DELETE operation to remove last member query interval.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6
/policy/route-map
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/ipv6/vrrp-group

Configures, modifies, or retrieves the IPv6 VRRPv3 configuration.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/vrrp-group	Starts vrrpv3 configuration Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
<i>priority</i>	Configures the interface priority value
<i>vrid</i>	Specifies the Virtual router identifier number
<i>virtual-ipaddr</i>	Configures the Virtual IPv4 address
<i>interface-type</i>	Specifies the interface type
<i>interface-name</i>	Specifies the interface name
<i>track-priority</i>	Configures the track priority
<i>enable</i>	Enables vrrp session
<i>hold-time</i>	Configures hold time for this session
<i>preempt-mode</i>	Sets preempt mode for the session
<i>description</i>	Sets the description describing this interface
<i>advertise-backup</i>	Enables periodic backup advertisement messages
<i>broadcast-mac-trap</i>	Enables the trap for all the IPv6 packets with broadcast MAC
<i>nd-advertisement-timer</i>	Configures neighbor discovery advertisement interval
<i>advertisement-interval-scale</i>	Configures the IPv4 session advertisement interval scale factor
<i>backup-advertisement-interval</i>	Configures backup advertisement interval
<i>vrrp-advertisement-interval</i>	Configures VRRP advertisement interval
<i>revert-priority</i>	Sets revert priority

Usage guidelines

GET, POST, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/vrrp-group

Request body

None

Response body

```
<vrrpv3e-group
y:self="/rest/config/running/TenGigabitEthernet/%22195/1/7%22/vrrpv3-group">
  <priority>110</priority>
  <vrid>2</vrid>
  <virtual-ip>
    <virtual-ipaddr>2000::1</virtual-ipaddr>
  </virtual-ip>
  <track
y:self="/rest/config/running/TenGigabitEthernet/%22195/1/7%22/vrrpv3-group/track
">
    <interface>
      <interface-type>TenGigabitEthernet</interface-type>
      <interface-name>3/2</interface-name>
      <track-priority>20</track-priority>
    </interface>
  </track>
  <enable></enable>
  <hold-time>20</hold-time>
  <preempt-mode></preempt-mode>
  <description>test</description>
  <advertise-backup></advertise-backup>
  <nd-advertisement-timer>10</nd-advertisement-timer>
  <advertisement-interval-scale>5</advertisement-interval-scale>
  <backup-advertisement-interval>70</backup-advertisement-interval>
  <vrrpe-advertisement-interval>2</vrrpe-advertisement-interval>
  <short-path-forwarding
y:self="/rest/config/running/TenGigabitEthernet/%22195/1/7%22/vrrpv3-group/short
-path-forwarding">
    <basic></basic>
    <revert-priority>10</revert-priority>
  </short-path-forwarding>
</vrrpv3e-group>
```

The following is an example of the POST operation to set IPv6 virtual router identifier.

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/ipv6

Request body

```
<vrrp-group>
  <vrid>100</vrid>
</vrrp-group>
```

Response body

None

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History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/lACP

Configures, modifies, or retrieves LACP commands.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/lACP	LACP commands Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
<i>timeout</i>	Specifies the timeout value. Supported configurations are long and short . Configuring long specifies that a long-timeout value of 30 seconds will be used. Configuring short specifies that a short-timeout value of one second will be used
<i>std_port-priority</i>	Specifies the priority. The value can range from 1 through 65535. A lower number takes priority over a higher number
<i>default-up</i>	Activates an LACP link in the absence of PDUs

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/lACP
```

Request body

None

Response body

```
<lACP xmlns="urn:brocade.com:mgmt:brocade-lACP"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/lACP">
  <timeout>short</timeout>
  <std_port-priority>32768</std_port-priority>
  <default-up>true</default-up>
</lACP>
```

The following is an example of the PUT operation to configure the port priority.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/lACP
```

4 Configuration APIs

Request body

```
<lacp>
  <std_port-priority>32768</std_port-priority>
</lacp>
```

Response body

None

The following is an example of the DELETE operation to remove the port priority configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/lacp
/std_port-priority
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/lldp

Configures, modifies, or retrieves the Link Layer Discovery Protocol (LLDP).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/lldp	The Link Layer Discovery Protocol (LLDP) Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
<i>dcbx-version</i>	Specifies the version. Supported versions are auto and cee . Configuring auto auto-adjusts the DCBX protocol version, this is the default setting. Configuring cee uses the Converged Enhanced Ethernet (CEE) DCBX version
<i>disable</i>	Disables the Link Layer Discovery Protocol (LLDP) on the interface
<i>iscsi-priority</i>	Specifies the priority value. The value can range from 0 through 7
<i>profile</i>	Specifies the profile name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/lldp
```

Request body

None

Response body

```
<lldp xmlns="urn:brocade.com:mgmt:brocade-lldp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/lldp"
>
  <dcbx-version>cee</dcbx-version>
  <disable>true</disable>
  <iscsi-priority>2</iscsi-priority>
  <profile>profile1</profile>
</lldp>
```

The following is an example of the PUT operation to configure the iscsi priority value.

4 Configuration APIs

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/lldp`

Request body

```
<lldp>
  <iscsi-priority>5</iscsi-priority>
</lldp>
```

Response body

None

The following is an example of the DELETE operation to remove the iscsi priority configuration.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/lldp/iscsi-priority`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/mac

Configures, modifies, or retrieves MAC parameters.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac	MAC parameters Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac/access-group	Configures MAC access group

Parameters

Name	Description
mac-access-list	Specifies the name of the standard or extended MAC access list
mac-direction	Specifies the direction. Supported configurations are in and out . Configuring in specifies to filter inbound packets only. Configuring out specifies to filter inbound packets only

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%2254/0/1%22/mac
```

Request body

None

Response body

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/1%22/mac">
  <access-group
y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/1%22/mac/acces
s-group/acl2%2Cin">
    <mac-access-list>acl2</mac-access-list>
    <mac-direction>in</mac-direction>
  </access-group>
</mac>
```

4 Configuration APIs

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/mac-learning

Configures, modifies, or retrieves MAC learning.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac-learning	MAC learning Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac-learning/disable	MAC learning disable
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac-learning/disable/vlan	VLAN range for which MAC learning need to be disabled

Parameters

Name	Description
add	Adds a VLAN or range of VLANs to the list of VLANs for which dynamic MAC address learning is disabled

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/47%22/mac-learning
```

Request body

None

Response body

```
<mac-learning
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/47%22/mac-learning">
  <disable
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/47%22/mac-learning/disable">
    <vlan
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/47%22/mac-learning/disable/vlan">
      <add>1000</add>
    </vlan>
  </disable>
</mac-learning>
```

4 Configuration APIs

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/openflow

Configures, modifies, or retrieves the OpenFlow configuration.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/openflow	Configures OpenFlow Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/openflow/openflow-enable	Enables OpenFlow

Parameters

Name	Description
<i>logical-instance-id</i>	Specifies the logical instance number
<i>enable</i>	Enables the OpenFlow mode on an interface
<i>match-profile</i>	Sets the OpenFlow match profile. Set the match profile as Layer2 or Layer3

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/openflow
```

Request body

None

Response body

```
<openflow xmlns="urn:brocade.com:mgmt:brocade-openflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/openflow">
  <logical-instance-id>1</logical-instance-id>
  <openflow-enable
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/openflow/openflow-enable">
    <enable>true</enable>
    <match-profile>Layer2</match-profile>
  </openflow-enable>
</openflow>
```

4 Configuration APIs

History

Release version	History
6.0.1	The API call was introduced.

interface/{interface-type}/{interface-name}/port-profile-port

Configures, modifies, or retrieves the interface set to AMPP profile mode.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/port-profile-port	Set the interface to AMPP profile mode Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/port-profile-port/domain	Associate a port profile domain

Parameters

Name	Description
profile-domain-name	Specifies the port-profile domain name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/port-profile-port
```

Request body

None

Response body

```
<port-profile-port xmlns="urn:brocade.com:mgmt:brocade-port-profile"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/port-profile-port">
  <domain
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/port-profile-port/domain">
    <profile-domain-name>default</profile-domain-name>
  </domain>
</port-profile-port>
```

4 Configuration APIs

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/qos

Configures, modifies, or retrieves Quality of Service (QoS).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/qos	Quality of Service (QoS) Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/qos/drop-monitor	Configure QoS drop monitor polling
<base_URI>/config/running/interface/{interface-type}/{interface-name}/qos/flowcontrol	Configures flowcontrol
<base_URI>/config/running/interface/{interface-type}/{interface-name}/qos/random-detect	Configures Random Early Detect (RED) profile

Parameters

Name	Description
cos	Specifies the CoS value. The value can range from 0 through 7
cos-mutation	Specifies the name of the CoS mutation map
dscp-mutation	Specifies the name of DSCP mutation map
dscp-cos	Specifies the name of the DSCP-to-COS mutation map
dscp-traffic-class	Specifies the name of the DSCP-to-Traffic-Class map
red-tc-value	Specifies the Class of Service (COS) value. The value can range from 0 through 7
drop-monitor-enable	Enables RASlog messages for various types of dropped data under QoS
tx	Activates or deactivates the transmission portion of flow control. Supported configurations are on and off . Configuring on activates the transmission portion of flow control. Configuring off deactivates the transmission portion of flow control
rx	Activates or deactivates the receiving portion of flow control. Supported configurations are on and off . Configuring on activates the receiving portion of flow control. Configuring off deactivates the receiving portion of flow control

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos
```

Request body

None

Response body

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos">
  <cos>1</cos>
  <cos-mutation>map1</cos-mutation>
  <dscp-mutation>map4</dscp-mutation>
  <dscp-cos>map3</dscp-cos>
  <dscp-traffic-class>map5</dscp-traffic-class>
  <random-detect
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos/random-detect">
    <traffic-class
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos/random-detect/traffic-class/2">
      <red-tc-value>2</red-tc-value>
    </traffic-class>
  </random-detect>
  <drop-monitor>
    <drop-monitor-enable>true</drop-monitor-enable>
  </drop-monitor>
  <flowcontrol
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos/flowcontrol">
    <flowcontrolglobal>
      <tx>on</tx>
      <rx>on</rx>
    </flowcontrolglobal>
  </flowcontrol>
</qos>
```

The following is an example of the PUT operation to configure qos cos.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/qos/cos
```

Request body

```
<cos>6</cos>
```

Response body

None

The following is an example of the DELETE operation to remove the qos configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/qos
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the parameter <i>drop-monitor-enable</i> under <i>drop-monitor</i> .

interface/{interface-type}/{interface-name}/rmon

Configures, modifies, or retrieves Remote Monitoring Protocol (RMON).

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon	Remote Monitoring Protocol (RMON) Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon/collection	Configures RMON ether collection
<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon/collection/stats	Configures RMON ether statistics collection
<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon/collection/history	Configures RMON ether history statistics collection

Parameters

Name	Description
<i>ether-stats-index</i>	Configures the RMON ether statistics collection index number
<i>owner</i>	Specifies the identity of the owner. The maximum number of characters is 15
<i>history-control-index</i>	Specifies the RMON collection control index value. The value can range from 1 through 65535
<i>buckets</i>	Specifies the maximum number of buckets for the RMON collection history. The value can range from 1 through 65535
<i>interval</i>	Specifies the alarm sample interval in seconds. The value can range from 1 through 3600. The default value is 1800

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon
```

Request body

None

Response body

```

<rmon xmlns="urn:brocade.com:mgmt:brocade-rmon"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon"
>
  <collection
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon/
collection">
    <stats
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon/
collection/stats/255">
      <ether-stats-index>255</ether-stats-index>
      <owner>admin</owner>
    </stats>
    <history
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon/
collection/history/25">
      <history-control-index>25</history-control-index>
      <interval>2000</interval>
      <owner>admin</owner>
      <buckets>10</buckets>
    </history>
  </collection>
</rmon>

```

The following is an example of the POST operation to configure history statistics collection.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/rmon/
collection
```

Request body

```

<history>
  <history-control-index>25</history-control-index>
  <interval>2000</interval>
  <owner>admin</owner>
  <buckets>10</buckets>
</history>

```

Response body

None

The following is an example of the DELETE operation to remove the history configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/rmon/
collection/history
```

Request body

None

Response body

None

4 Configuration APIs

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/service-policy

Configures, modifies, or retrieves Input/Output policy map.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/service-policy	Attach Input/Output policy map Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
<i>in</i>	Specifies the input policy map name
<i>out</i>	Binds policy-map to outbound traffic. Specifies the name of the policy-map

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22%22/service-policy
```

Request body

None

Response body

```
<service-policy xmlns="urn:brocade.com:mgmt:brocade-policer"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/service-policy">
  <in>polycymap1</in>
  <out>polycymap1</out>
</service-policy>
```

The following is an example of the PUT operation to modify input policy name.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/service-policy
```

Request body

```
<service-policy>
```

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```
<in>policy_map_1</in>  
</service-policy>
```

Response body

None

The following is an example of the DELETE operation to remove the policy.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/service-policy
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/sflow

Configures, modifies, or retrieves sFlow configuration.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/sflow	sFlow configuration Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
<i>enable</i>	Enables sFlow on the interface
<i>polling-interval</i>	Specifies the polling interval in seconds. The value can range from 1 through 65535 seconds
<i>sample-rate</i>	Specifies the sampling rate. The value can range from 2 through 16777215 packets

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/sflow
```

Request body

None

Response body

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/sflow">
  <enable>true</enable>
  <polling-interval>25</polling-interval>
  <sample-rate>32760</sample-rate>
</sflow>
```

The following is an example of the PUT operation to modify sflow configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/sflow
```

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Request body

```
<sflow>
  <enable>true</enable>
  <sample-rate>6</sample-rate>
</sflow>
```

Response body

None

The following is an example of the DELETE operation to remove the polling-interval configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/sflow/polling-interval
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/snmp

Enable SNMP traps.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/snmp	Enables SNMP Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
<i>enable</i>	Enables sFlow on the interface
<i>polling-interval</i>	Specifies the polling interval in seconds. The value can range from 1 through 65535 seconds

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/snmp
```

Request body

None

Response body

```
<snmp xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/snmp">
  <trap
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/snmp/trap"
  >
    </trap>
</snmp>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/spanning-tree

Configures, modifies, or retrieves Spanning Tree Protocol commands.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/spanning-tree	Spanning tree commands Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN

Parameters

Name	Description
<i>cost</i>	Specifies the path cost for the Spanning Tree Protocol (STP) calculations. The value can range from 1 through 200000000
<i>bpd-filter</i>	Sets the edge port Bridge Protocol Data Unit (BPDU) filter for the port
<i>bpd-guard</i>	Guards the port against the reception of BPDUs
<i>portfastbasic</i>	Enables the Port Fast feature on an interface to allow the interface to quickly transition to forwarding state
<i>bpd-mac</i>	Specifies the MAC address of the Bridge Protocol Data Unit. Supported configurations are 0100.0ccc.cccd and 0304.0800.0700 . Configuring 0100.0ccc.cccd sets MAC address as Cisco Control Mac. Configuring 0304.0800.0700 sets MAC address as Brocade Control Mac
<i>root</i>	Enables the guard root
<i>priority</i>	Specifies the port priority for a bridge in increments of 16. The value can range from 0 through 240
<i>link-type</i>	Enables and disables the rapid transition. Supported configurations are point-to-point and shared . Configuring point-to-point enables rapid transition. Configuring shared disables rapid transition
<i>restricted-role</i>	Specifies to restrict the role of a port
<i>restricted-tcn</i>	Specifies to restrict the propagation of the topology change notifications from a port
<i>shutdown</i>	Enables or disables spanning tree on the interface
<i>id</i>	Specifies the MSTP instance. The value can range from 1 through 32
<i>autoedge</i>	Enables automatic edge detection
<i>hello-time</i>	Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent by the root switch configuration messages. The value can range from 1 through 10
<i>edgeportbasic</i>	Enables the edge port on an interface

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-tree
```

Request body

None

Response body

```
<spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/protocol/spanning-tree">
  <cost>50</cost>
  <portfast
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/portfast">
    <bpdu-filter>true</bpdu-filter>
    <portfastbasic>true</portfastbasic>
    <bpdu-guard>true</bpdu-guard>
  </portfast>
  <bpdu-mac>0100.0ccc.cccd</bpdu-mac>
  <guard
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/guard">
    <root>true</root>
  </guard>
  <autoedge>true</autoedge>
  <priority>240</priority>
  <hello-time>10</hello-time>
  <link-type>shared</link-type>
  <restricted-role>true</restricted-role>
  <restricted-tcn>true</restricted-tcn>
  <edgeport
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/edgeport">
    <bpdu-filter>true</bpdu-filter>
    <edgeportbasic>true</edgeportbasic>
    <bpdu-guard>true</bpdu-guard>
  </edgeport>
  <shutdown>true</shutdown>
  <instance xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/instance/11">
    <id>11</id>
    <priority>240</priority>
    <cost>60</cost>
    <restricted-role>true</restricted-role>
    <restricted-tcn>true</restricted-tcn>
  </instance>
  <vlan xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/vlan/4000">
    <id>4000</id>
```

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```
<priority>250</priority>
<cost>70</cost>
<guard
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/vlan/4000/guard">
  <root>true</root>
  </guard>
</vlan>
</spanning-tree>
```

The following is an example of the POST operation to add spanning tree priority configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/span
ning-tree
```

Request body

```
<priority>32</priority>
```

Response body

None

The following is an example of the DELETE operation to remove the spanning tree configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/span
ning-tree
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/storm-control

Configures, modifies, or retrieves BUM Storm Control.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/storm-control	BUM Storm Control Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/storm-control/ingress	Sets the ingress direction

Parameters

Name	Description
<i>protocol-type</i>	Specifies the protocol type. Supported configurations are broadcast , unknown-unicast and multicast . Configuring broadcast specifies that the command will operate on broadcast traffic only. Configuring unknown-unicast specifies that the command will operate on unknown-unicast traffic only. Configuring multicast specifies that the command will operate on multicast traffic only
<i>rate-format</i>	Specifies the rate format. Supported configurations are limit-bps and limit-percent . Configuring limit-bps specifies that the value given to the rate parameter is in bits per second. Configuring limit-percent specifies that the value given to the rate parameter is in bits per second
<i>rate-bps</i>	Specifies the amount of traffic allowed, either in bits per second or a percentage of the capacity of the interface, depending on which parameter was chosen with the rate. Supported configurations are monitor and shutdown . Configuring monitor specifies that, if a rate limit is reached within a five-second sampling period, a log message gets sent. Configuring shutdown specifies that, if a rate limit is exceeded within a five-second sampling period, the interface will be shut down
<i>bum-action</i>	Sets the bum action as monitor (Monitor port for violations) or shutdown (Shut down port in case of violation)

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/storm-control
```

Request body

None

Response body

```
<storm-control xmlns="urn:brocade.com:mgmt:brocade-bum-storm-control"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/storm
-control">
  <ingress
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/storm
-control/ingress/broadcast">
    <protocol-type>broadcast</protocol-type>
    <rate-format>limit-bps</rate-format>
    <rate-bps>10000</rate-bps>
    <bum-action>monitor</bum-action>
  </ingress>
  <ingress
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/storm
-control/ingress/unknown-unicast">
    <protocol-type>unknown-unicast</protocol-type>
    <rate-format>limit-bps</rate-format>
    <rate-bps>50000</rate-bps>
    <bum-action>monitor</bum-action>
  </ingress>
</storm-control>
```

The following is an example of the POST operation to configure the BUM storm control configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/stor
m-control
```

Request body

```
<ingress>
  <protocol-type>multicast</protocol-type>
  <rate-format>limit-percent</rate-format>
  <rate-percent>23</rate-percent>
  <bum-action>shutdown</bum-action>
</ingress>
```

Response body

None

The following is an example of the DELETE operation to remove the storm control configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/stor
m-control/ingress
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/switchport

Configures, modifies, or retrieves the switching characteristics of the Layer 2 interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport	Set the switching characteristics of the Layer 2 interface Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/access	Sets the interface as access
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/mode	Sets mode of the Layer2 interface
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/port-security	Enables port-security feature
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/private-vlan	Sets private-vlan configuration
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/trunk	Sets the Layer2 interface as trunk

Parameters

Name	Description
<i>switchport</i>	Enables switching characteristics of the Layer 2 interface
<i>max</i>	Configures the maximum number of allowed MAC addresses
<i>native-vlan</i>	Specifies a VLAN to transmit and receive through the Layer 2 interface
<i>trunk-basic</i>	Sets the Layer 2 interface as private-vlan trunk basic
<i>trunk-promiscuous</i>	Sets the Layer 2 interface as private-vlan trunk promiscuous
<i>trunk-host</i>	Sets the Layer 2 interface as private-vlan trunk host
<i>accessvlan</i>	Specifies the VLAN ID
<i>rspan-access-vlan</i>	Specifies the RSPAN VLAN ID to set as access VLAN
<i>pvlan_all</i>	Allows all VLANs to Xmit/Rx through the Layer 2 interface
<i>pvlan_none</i>	Allows no VLANs to Xmit/Rx through the Layer 2 interface
<i>pvlan_add</i>	Adds a VLAN to Xmit/Rx through the Layer 2 interface
<i>pvlan_except</i>	Allows all VLANs except VID to Xmit/Rx through Layer 2 interface
<i>pvlan_remove</i>	Removes a VLAN that Xmit/Rx through the Layer 2 interface
<i>pvlanNativevlan</i>	Specifies the VLAN interface number
<i>pvlan-native-vlan-ctag-id</i>	Associates a Ctag as Private VLAN
<i>host-pri-pvlan</i>	Specifies the VLAN interface number
<i>host-sec-pvlan</i>	Specifies the host VLAN interface number

Name	Description
<i>trunk-pri-pvlan</i>	Specifies the trunk primary VLAN ID
<i>trunk-sec-pvlan</i>	Specifies the trunk secondary VLAN ID
<i>promis-pri-pvlan</i>	Specifies the primary VLAN ID
<i>oper</i>	Sets the operation to be performed as add (Adds Secondary VLAN IDs) or delete (Remove secondary VLAN IDs)
<i>promis-sec-pvlan-range</i>	Specifies the secondary VLAN identification
<i>all</i>	Specifies all Dot1q VLANs to add
<i>none</i>	Specifies 'no dot1q vlans'
<i>add</i>	Specifies list of VLANs to be added
<i>except</i>	Specifies exception list of VLANs
<i>remove</i>	Specifies the list of VLANs to be removed
<i>add-rspan-trunk-vlan</i>	Specifies the RSPAN VLAN IDs to add
<i>remove-rspan-trunk-vlan</i>	Specifies the list of RSPAN VLANs to be removed
<i>trunk-vlan-id</i>	Specifies the trunk VLAN ID
<i>trunk-ctag-id</i>	Specifies the Ctag ID

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport
```

Request body

None

Response body

```
<switchport xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port">
  <switchport>true</switchport>
  <mode
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/mode">
    <private-vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/mode/private-vlan">
      <trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/mode/private-vlan/trunk">
        <trunk-basic>true</trunk-basic>
```

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```
        <trunk-promiscuous>true</trunk-promiscuous>
        <trunk-host>true</trunk-host>
    </trunk>
</private-vlan>
</mode>
<port-security
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/port-security">
    <max>5</max>
</port-security>
    <access
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/access">
    <accessvlan>2000</accessvlan>
    <rspan-access
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/access/rspan-access">
    <rspan-access-vlan>1000</rspan-access-vlan>
    </rspan-access>
</access>
    <private-vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan">
    <trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/trunk">
    <allowed
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/trunk/allowed">
    <vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/trunk/allowed/vlan">
    <pvlan_all>true</pvlan_all>
    <pvlan_none>true</pvlan_none>
    <pvlan_add>10</pvlan_add>
    <pvlan_except>2000</pvlan_except>
    <pvlan_remove>12</pvlan_remove>
    </vlan>
    </allowed>
    <native
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/trunk/native">
    <pvlanNativevlan>2000</pvlanNativevlan>
    <pvlan-native-vlan-ctag-id>3000</pvlan-native-vlan-ctag-id>
    </native>
    </trunk>
    <host-association
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/host-association">
    <host-pri-pvlan>1000</host-pri-pvlan>
    <host-sec-pvlan>2000</host-sec-pvlan>
    </host-association>
    <association
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/association">
    <trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/association/trunk">
    <trunk-pri-pvlan>100</trunk-pri-pvlan>
    <trunk-sec-pvlan>300</trunk-sec-pvlan>
```

```

        </trunk>
    </asspcoation>
    <mapping
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/mapping">
        <promis-pri-pvlan>400</promis-pri-pvlan>
        <oper>add</oper>
        <promis-sec-pvlan-range>1-10</promis-sec-pvlan-range>
    </mapping>
</private-vlan>
<trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk">
    <allowed
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed">
        <vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/vlan">
            <all>>true</all>
            <none>>true</all>
            <add>10</add>
            <except>2000</except>
            <remove>12</remove>
        </vlan>
        <rspan-vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/rspan-vlan">
            <add-rspan-trunk-vlan>100</add-rspan-trunk-vlan>
            <remove-rspan-trunk-vlan>200</remove-rspan-trunk-vlan>
        </rspan-vlan>
        <trunk-rspan-vlan-classification
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/trunk-rspan-vlan-classification">
            <rspan-vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/trunk-rspan-vlan-classification/rspan-vlan">
                <add
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/trunk-rspan-vlan-classification/rspan-vlan/add">
                    <trunk-vlan-id>10</trunk-vlan-id>
                    <trunk-ctag-id>20</trunk-ctag-id>
                </add>
                <remove
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/trunk-rspan-vlan-classification/rspan-vlan/remove">
                    <trunk-vlan-id>50</trunk-vlan-id>
                    <trunk-ctag-id>60</trunk-ctag-id>
                </remove>
            </rspan-vlan>
        </trunk-rspan-vlan-classification>
    </allowed>
</trunk>
</switchport>

```

The following is an example of the POST operation to configure the switchport.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/
```

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Request body

<switchport></switchport>

Response body

None

The following is an example of the DELETE operation to remove the switchport configuration.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/switchport/`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/track

Configures, modifies, or retrieves the track interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/track	Track interface Supported interface type is TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/track/interface	Interface to be tracked

Parameters

Name	Description
enable	Enables link-state tracking
track-interface-type	Specifies a physical interface type
track-interface-name	Specifies the physical interface name in the format rbridge-id/slot/port

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/track
```

Request body

None

Response body

```
<track xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/track">
  <interface
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/track/interface/track-interface-type-port-channel%2Ctengigabithernet">
    <track-interface-type>track-interface-type-port-channel</track-interface-type>
  </interface>
  <track-interface-name>TenGigabitEthernet</track-interface-name>
</track>
```

The following is an example of the POST operation to track a TenGigabitEthernet interface.

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URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/track`

Request body

```
<interface>
  <track-interface-type>ethernet</track-interface-type>
  <track-interface-name>1/0/11</track-interface-name>
</interface>
```

Response body

None

The following is an example of the DELETE operation to remove the track configuration.

URI

`http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/track/interface`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/tunable-optics

Assigns channels to tunable optic interfaces (T-SFP+) for specific wavelengths.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/tunable-optics	assigns channels to tunable optic interfaces (T-SFP+) for specific wavelengths.

Parameters

Name	Description
tagged-ieee-bpdu	Activates IEEE BPDU packets

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/tunable-optics
```

Request body

None

Response body

```
<tunable-optics xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/tunable-optics">
  <sfpp
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/tunable-optics/sfpp">
    <channel>5</channel>
  </sfpp>
</tunable-optics>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/tunnel

Configures, modifies, or retrieves tunneling parameters.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/tunnel	Tunneling parameters Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
tagged-ieee-bpdu	Activates IEEE BPDU packets

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/tunnel
```

Request body

None

Response body

```
<tunnel xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/tunnel">
  <tagged-ieee-bpdu>true</tagged-ieee-bpdu>
</tunnel>
```

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/udld

Configures, modifies, or retrieves UDLD commands.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/udld	UDLD commands Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
enable	Enables UDLD protocol on the interface

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/udld
```

Request body

None

Response body

```
<udld xmlns="urn:brocade.com:mgmt:brocade-udld"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/udld">
  <enable>true</enable>
</udld>
```

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/vlan

Configures, modifies, or retrieves VLAN commands.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/vlan	VLAN commands. Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
groupid	Specifies which VLAN classifier group to activate. The value can range from 1 through 16
vlan-name	Specifies the VLAN interface to activate

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/vlan
```

Request body

None

Response body

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/vlan">
  <classifier>
    <activate>
      <group>
        <groupid>1</groupid>
        <vlan-name>vlan</vlan-name>
        <vlan>2</vlan>
      </group>
    </activate>
  </classifier>
</vlan>
```

The following is an example of the POST operation to add a VLAN.

URI

`http://host:80/rest/config/running/interface/`

Request body

```
<Vlan>
  <name>6000</name>
</Vlan>
```

Response body

None

The following is an example of the DELETE operation to remove a VLAN interface.

URI

`http://host:80/rest/config/running/interface/Vlan/6000`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/vrf

Configures, modifies, or retrieves VRF.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/vrf	Assign VRF to this Ethernet interface Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
forwarding	Specifies the name of the VRF option for the port

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/vrf
```

Request body

None

Response body

```
<vrf xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/vrf">
  <forwarding>mgmt-vrf</forwarding>
</vrf>
```

The following is an example of the PUT operation to enable VRF forwarding.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/vrf
```

Request body

```
<vrf>
  <forwarding>vrf1</forwarding>
</vrf>
```

Response body

None

The following is an example of the DELETE operation to disable VRF forwarding.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet%221/0/5%22/vrf/forwarding
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/{interface-type}/{interface-name}/vrrp-group

Configures, modifies, or retrieves VRRP configuration.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/vrrp-group	Start VRRP configuration Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet

Parameters

Name	Description
<i>vid</i>	Specifies the Virtual router identifier number
<i>version</i>	Sets the VRRP version. Sets the version as 2 or 3

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/22102/5/1/vrrp-group
```

Request body

None

Response body

```
<vrrp-group
  y:self="/rest/config/running/interface/TenGigabitEthernet/22102/5/1/vrrp-group/>
  <vid>2</vid>
  <version>2</version>
</vrrp-group>
```

The following is an example of the POST operation to enable vrrp-group configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/226/0/1/vrrp-group/89
```

Request body

```
<enable>>true</enable>
```


Response body

None

The following is an example of the DELETE operation to disable vrrp-group configuration.

URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%226/0/1%22/vrrp-group/89%2C2/enable
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/ve/{vlan-id}/ip/fabric-virtual-gateway

Configures, modifies, or retrieves the Internet Protocol (IP) Fabric-Virtual-Gateway configurations in a Virtual Ethernet (VE) interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/ve/{vlan-id}/ip/fabric-virtual-gateway	IP Fabric-Virtual-Gateway configurations
<base_URI>/config/running/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/gratuitous-arp	Gratuitous ARP timer configurations

Parameters

Name	Description
<i>ip-gw-id</i>	Specifies the gateway id
<i>gateway-address</i>	Specifies the IPv4 address in the format A.B.C.D/L
<i>timer</i>	Specifies the gratuitous ARP timer in seconds. The value can range from 0 through 360 seconds
<i>hold-time</i>	Specifies the hold time in seconds
<i>load-balancing-disable</i>	Disables load balancing globally
<i>enable</i>	Enables IPv4 Fabric-Virtual-Gateway configurations
<i>description</i>	Configures Fabric-Virtual-Gateway specific description

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the Fabric-Virtual-Gateway configuration details.

URI

```
http://host:80/rest/config/running/interface/ve/1/ip
```

Request body

None

Response body

```
<ip xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/ve/1/ip">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
y:self="/rest/config/running/interface/ve/1/ip/fabric-virtual-gateway/23">
    <ip-gw-id>1</ip-gw-id>
    <gateway-address>1.1.1.1/24</gateway-address>
```

```

    <gratuitous-arp
y:self="/rest/config/running/interface/Ve/1/ip/fabric-virtual-gateway/23/gratuitous-arp">
    <timer>40</timer>
    </gratuitous-arp>
    <hold-time>25</hold-time>
    <load-balancing-disable>true</load-balancing-disable>
    <enable>true</enable>
    <description>anycastip</description>
  </fabric-virtual-gateway>
</ip>

```

The following is an example of the DELETE operation to remove a gateway address from IP Fabric-Virtual-Gateway configuration.

URI

```
http://host:80/rest/config/running/interface/ve/1/ip/fabric-virtual-gateway/22/gateway-address
```

Request body

None

Response body

None

History

Release version	History
5.0.1	The API call was introduced.
6.0.0	The API call was not supported.
6.0.1	The API call was supported.

interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6) Fabric-Virtual-Gateway configurations in a Virtual Ethernet (VE) interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway	IPv6 Fabric-Virtual-Gateway configurations
<base_URI>/config/running/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/gratuitous-arp	Gratuitous ARP timer configurations

Parameters

Name	Description
ipv6-gw-id	Specifies the gateway id
ipv6-gw-addr	Specifies the IPv6 address in the format x:x:x::x/L
timer	Specifies the gratuitous ARP timer in seconds. The value can range from 0 through 360 seconds
hold-time	Configures the hold time
load-balancing-disable	Disables load balancing
enable	Enables IPv6 Fabric-Virtual-Gateway configurations
description	Configures Fabric-Virtual-Gateway specific description

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the IPv6 Fabric-Virtual-Gateway configuration details.

URI

http://host:80/rest/config/running/interface/ve/1/ipv6

Request body

None

Response body

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/ve/1/ipv6">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
y:self="/rest/config/running/interface/ve/1/ipv6/fabric-virtual-gateway/22">
    <ipv6-gw-id>1</ipv6-gw-id>
```

```

    <gateway-address
y:self="/rest/config/running/interface/Ve/1/ipv6/fabric-virtual-gateway/22/gatew
ay-address/%221::1/24%22">
    <ipv6-gw-addr>1::1/24</ipv6-gw-addr>
    </gateway-address>
    <gratuitous-arp
y:self="/rest/config/running/interface/Ve/1/ipv6/fabric-virtual-gateway/22/nd">
    <timer>80</timer>
    </gratuitous-arp>
    <hold-time>58</hold-time>
    <load-balancing-disable>true</load-balancing-disable>
    <enable>true</enable>
    <description>anycastipv6</description>
    </fabric-virtual-gateway>
</ipv6>

```

The following is an example of the DELETE operation to remove a gateway address from IPv6 Fabric-Virtual-Gateway configuration.

URI

```
http://host:80/rest/config/running/interface/ve/1/ipv6/fabric-virtual-gateway/22/gateway-address
```

Request body

None

Response body

None

History

Release version	History
5.0.1	The API call was introduced.
6.0.0	The API call was not supported.
6.0.1	The API call was supported.

interface/vlan/{vlan-number}/ip/arp

Configures, modifies, or retrieves ARP inspection.

Resource URIs

URI	Description
<base_URI>/config/running/interface/vlan/{vlan-number}/ip/arp	Configures ARP inspection
<base_URI>/config/running/interface/vlan/{vlan-number}/ip/arp/inspection	Sets the ARP inspection flag
<base_URI>/config/running/interface/vlan/{vlan-number}/ip/arp/inspection/filter	Configures ARP inspection filter
<base_URI>/config/running/interface/vlan/{vlan-number}/ip/arp/inspection/logging	Configures ARP inspection logging

Parameters

Name	Description
<i>trust</i>	Enables dynamic ARP inspection (DAI) on a VLAN
<i>acl-name</i>	Specifies which ACL is applied to the VLAN
<i>acl-match</i>	Enables or disabled logging. Supported configurations are matchlog and none . Configuring matchlog enables DAI logging. Configuring none disables DAI logging

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/vlan/100/ip/arp
```

Request body

None

Response body

```
<arp xmlns="urn:brocade.com:mgmt:brocade-dai"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Vlan/100/ip/arp">
  <inspection
y:self="/rest/config/running/interface/Vlan/100/ip/arp/inspection">
    <trust>true</trust>
    <filter
y:self="/rest/config/running/interface/Vlan/100/ip/arp/inspection/filter">
      <acl-name>acl1</acl-name>
    </filter>
```

```

    <logging
y:self="/rest/config/running/interface/Vlan/100/ip/arp/inspection/logging">
    <acl-match>matchlog</acl-match>
    </logging>
  </inspection>
</arp>

```

The following is an example of the PUT operation to add an access list name.

URI

`http://host:80/rest/config/running/interface/Vlan/100/ip/arp/inspection/filter`

Request body

```

<filter>
  <acl-name>acl1</acl-name>
</filter>

```

Response body

None

The following is an example of the DELETE operation to remove the ARP inspection filter configuration.

URI

`http://host:80/rest/config/running/interface/vlan/100/ip/arp/inspection/filter/acl-name`

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.

interface/vlan/{vlan-number}/private-vlan

Configures, modifies, or retrieves private VLAN.

Resource URIs

URI	Description
<base_URI>/config/running/interface/vlan/{vlan-number}/private-vlan	Configures VLAN as private VLAN
<base_URI>/config/running/interface/vlan/{vlan-number}/private-vlan/association	Associates secondary VLAN

Parameters

Name	Description
<i>pvlan-type-leaf</i>	Specifies the private VLAN type. Supported configurations are isolated , community and primary . Configuring isolated sets a PVLAN as an Isolated VLAN. Configuring community sets a PVLAN as a Community VLAN. Configuring primary sets a PVLAN as a Primary VLAN
<i>add</i>	Adds the association
<i>remove</i>	Specifies the range of VLANs to remove

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/vlan/1/private-vlan
```

Request body

None

Response body

```
<private-vlan xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Vlan/1/private-vlan">
  <pvlan-type-leaf>isolated</pvlan-type-leaf>
  <association
y:self="/rest/config/running/interface/Vlan/1/private-vlan/association">
    <add>1000</add>
    <remove>4098</remove>
  </association>
</private-vlan>
```


History

Release version	History
5.0.0	The API call was introduced.

interface/vlan/{vlan-number}/suppress-arp

Enables Address Resolution Protocol (ARP) suppression on the current VLAN, lessening ARP-related traffic within an IP Fabric.

Resource URIs

URI	Description
<base_URI>/config/running/interface/vlan/{vlan-number}/suppress-arp	Enables Address Resolution Protocol (ARP) suppression on the current VLAN

Parameters

Name	Description
enable	Enables ARP suppression on the current VLAN

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/interface/vlan/8000/suppress-arp

Request body

None

Response body

```
<suppress-arp xmlns="urn:brocade.com:mgmt:brocade-arp"
y:self="/rest/config/running/interface/Vlan/8000/suppress-arp">
  <enable>true</enable>
</suppress-arp>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/vlan/{vlan-number}/suppress-nd

Enables Neighbor Discovery (ND) suppression on the current VLAN, lessening the amount of ND control traffic within an IP Fabric.

Resource URIs

URI	Description
<base_URI>/config/running/interface/vlan/{vlan-number}/suppress-nd	Enables Neighbor Discovery (ND) suppression on the current VLAN.

Parameters

Name	Description
enable	Enables ND suppression on the current VLAN

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/vlan/8000/suppress-nd
```

Request body

None

Response body

```
<suppress-nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Vlan/8000/suppress-nd">
  <enable>true</enable>
</suppress-nd>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/vlan/{vlan-number}/transport-service

Configures, modifies, or retrieves the transport LAN service ID (tlsid) for transparent VLAN

Resource URIs

URI	Description
<base_URI>/config/running/interface/vlan/{vlan-number}/transport-service	Set tlsid for transparent VLAN

Parameters

Name	Description
<i>name</i>	Configures the tlsid number
<i>transport-service</i>	Specifies the transport LAN service ID. The value can range from 1 through 1000

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/vlan/8000/transport-service
```

Request body

None

Response body

```
<Vlan xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Vlan/8000">
  <name>8000</name>
  <transport-service>10</transport-service>
</Vlan>
```

The following is an example of the POST operation to configure transport service.

URI

```
http://host:80/rest/config/running/interface/Vlan/100
```

Request body

```
<transport-service>100</transport-service>
```

Response body

None

The following is an example of the DELETE operation to remove the transport service configuration.

URI

`http://host:80/rest/config/running/interface/vlan/100/transport-service`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

interface/port-channel/{port-channel-number}/esi

Configures, modifies, or retrieves the Ethernet Segment Identifier (ESI) value for an interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/esi	Configures the Ethernet Segment Identifier (ESI) value for an interface.

Parameters

Name	Description
auto-value-assignee	Specifies that the ESI value is automatically derived using the LACP Partner SystemID/Port Key

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/Port-channel/6144/esi
```

Request body

None

Response body

```
<esi xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/esi">
  <auto y:self="/rest/config/running/interface/Port-channel/6144/esi/auto">
    <auto-value-assignee>lacp</auto-value-assignee>
  </auto>
</esi>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/port-channel/{port-channel-number}/ip/address

Configures, modifies, or retrieves the IP address of an interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/ip/address	Configures the IP address of an interface.

Parameters

Name	Description
address	Specifies the IP address in dotted decimal/Mask format

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/Port-channel/6144/ip/address
```

Request body

None

Response body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ip-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/ip/address/%2210.10.10.1/24%22">
  <address>10.10.10.1/24</address>
</address>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/port-channel/{port-channel-number}/ipv6/address

Configures, modifies, or retrieves the IPv6 address of an interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/ipv6/address	Configures the IPv6 address of an interface.

Parameters

Name	Description
address	Specifies the IPv6 address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/interface/Port-channel/6144/ipv6/address

Request body

None

Response body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/ipv6/address">
  <ipv6-address
y:self="/rest/config/running/interface/Port-channel/6144/ipv6/address/ipv6-address/%221000:1:3:1::1/127%22">
    <address>1000:1:3:1::1/127</address>
  </ipv6-address>
</address>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/anycast

Configures, modifies, or retrieves the IPv6 address as anycast.

Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/anycast	Configures the IPv6 address as anycast.

Parameters

Name	Description
address	Specifies the IPv6 address
anycast	Sets the IPv6 address as anycast

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/Port-channel/6144/ipv6/address
```

Request body

None

Response body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/ipv6/address">
  <ipv6-address
y:self="/rest/config/running/interface/Port-channel/6144/ipv6/address/ipv6-address/%222001::1/64%22">
    <address>2001::1/64</address>
    <anycast>true</anycast>
  </ipv6-address>
</address>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/eui64

Configures, modifies, or retrieves a global or unique local IPv6 unicast address with an automatically computed EUI-64 interface ID.

Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/eui64	Configures a global or unique local IPv6 unicast address with an automatically computed EUI-64 interface ID.

Parameters

Name	Description
address	Specifies the IPv6 address
eui-64	Configures the global or unique local unicast address with a 64-bit Extended Unique Identifier (EUI), using the MAC address of the interface to construct the interface ID automatically

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/Port-channel/6144/ipv6/address
```

Request body

None

Response body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/ipv6/address">
  <ipv6-address
y:self="/rest/config/running/interface/Port-channel/6144/ipv6/address/ipv6-address/%222001:2::/64%22">
    <address>2001:2::/64</address>
    <eui-64>true</eui-64>
  </ipv6-address>
</address>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/link-local

Configures, modifies, or retrieves the IPv6 address to overwrite an automatically computed link-local address.

Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/ipv6/address/{ipv6-address}/link-local	Configures the IPv6 address to overwrite an automatically computed link-local address

Parameters

Name	Description
<i>link-local-address</i>	Specifies the IPv6 link-local address
<i>link-local</i>	Sets IPv6 address to overwrite an automatically computed link-local address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/Port-channel/6144/ipv6/address
```

Request body

None

Response body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/ipv6/address">
  <link-local-address>fe80::1234:3257:9652</link-local-address>
  <link-local>true</link-local>
</address>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/port-channel/{port-channel-number}/ipv6/address/use-link-local-only

Configures, modifies, or retrieves an automatically computed link-local address.

Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/ipv6/address/use-link-local-only	Configures an automatically computed link-local address.

Parameters

Name	Description
use-link-local-only	Sets IPv6 address to automatically configured link-local address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/interface/Port-channel/6144/ipv6/address
```

Request body

None

Response body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/ipv6/address">
  <use-link-local-only>true</use-link-local-only>
</address>
```

History

Release version	History
7.0.0	The API call was introduced.

interface/port-channel/{port-channel-number}/vlag

Configures, modifies, or retrieves virtual LAG.

Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/vlag	Virtual LAG

Parameters

Name	Description
ignore-split	Enables vLAG ignore-split-recovery

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/interface/Port-channel/6144/vlag

Request body

None

Response body

```
<vlag xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/vlag">
  <ignore-split>true</ignore-split>
</vlag>
```

History

Release version	History
5.0.0	The API call was introduced.

ip

Configures, modifies, or retrieves the Internet Protocol (IP) configuration.

Resource URIs

URI	Description
<base_URI>/config/running/ip	The Internet Protocol configuration
<base_URI>/config/running/ip/access-list	Access list configuration
<base_URI>/config/running/ip/dns	Domain Name System (DNS) configuration.
<base_URI>/config/running/ip/igmp	Internet Group Management Protocol (IGMP) configuration

Parameters

Name	Description
<i>access-list</i>	Configures IP access list parameters. Refer to ip/access-list for more information
<i>igmp</i>	Configures IGMP parameters. Refer to ip/dns for more information
<i>dns</i>	Configures DNS parameters. Refer to ip/igmp for more information

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ip
```

Request body

None

Response body

```
<ip xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ip">
  <access-list y:self="/rest/config/running/ip/access-list/">
    <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping"
y:self="/rest/config/running/ip/igmp/">
      <dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration"
y:self="/rest/config/running/ip/dns/">
        </ip>
```

4 Configuration APIs

History

Release version	History
5.0.0	The API call was introduced.

ip/access-list

Configures, modifies, or retrieves the Internet Protocol (IP) access list configuration.

Resource URIs

URI	Description
<base_URI>/config/running/ip	The Internet Protocol configuration
<base_URI>/config/running/ip/access-list/standard	Standard IP ACL configuration
<base_URI>/config/running/ip/access-list/standard/{ACL-name}/seq	Sequence number configuration
<base_URI>/config/running/ip/access-list/extended	Extended IP ACL configuration
<base_URI>/config/running/ip/access-list/extended/{ACL-name}/seq	Sequence number configuration

Parameters

Name	Description
<i>name</i>	Specifies the IPv4 access list name
<i>seq</i>	Specifies the sequence number
<i>seq-id</i>	Specifies the sequence number for the rule
<i>action</i>	Specifies the action to be performed. Supported actions are deny , hard-drop and permit . Configuring deny drops traffic. Configuring hard-drop force drops traffic. Configuring permit allows traffic
<i>src-host-any-sip</i>	Specifies any source host IP address
<i>src-host-ip</i>	Specifies the source host IP address
<i>src-mask</i>	Configures the source IP address mask
<i>count</i>	Enables the counting of the packets matching the rule
<i>log</i>	Packets matching the filter are sent to the CPU and a corresponding log entry is generated by enabling the logging mechanism. This parameter is only available with permit and deny
<i>protocol-type</i>	The type of protocol used
<i>dst-host-any-dip</i>	Specifies any destination host IP address
<i>dst-host-ip</i>	Specifies the destination host IP address
<i>vlan</i>	Specifies the VLAN interface number
<i>dscp</i>	Specifies the DSCP field value in IP header when a packet matches a flow

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/ip/access-list

Request body

None

Response body

```
<access-list xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/ip/access-list">
  <standard y:self="/rest/config/running/ip/access-list/standard/acl15">
    <name>acl15</name>
    <seq y:self="/rest/config/running/ip/access-list/standard/acl15/seq/10">
      <seq-id>10</seq-id>
      <action>deny</action>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10.12.14.17</src-host-ip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ip/access-list/standard/acl15/seq/20">
      <seq-id>20</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>10.14.16.98</src-host-any-sip>
      <src-mask>10.54.58.74</src-mask>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ip/access-list/standard/acl15/seq/30">
      <seq-id>30</seq-id>
      <action>permit</action>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10.24.15.17</src-host-ip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ip/access-list/standard/acl15/seq/100">
      <seq-id>100</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>any</src-host-any-sip>
      <count>true</count>
      <log>true</log>
    </seq>
  </standard>
  <standard y:self="/rest/config/running/ip/access-list/standard/exit">
    <name>exit</name>
    <seq y:self="/rest/config/running/ip/access-list/standard/exit/seq/10">
      <seq-id>10</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10.20.34.100</src-host-ip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ip/access-list/standard/exit/seq/20">
      <seq-id>20</seq-id>
      <action>permit</action>
      <src-host-any-sip>host</src-host-any-sip>
```

```

    <src-host-ip>10.14.88.100</src-host-ip>
    <count>>true</count>
    <log>>true</log>
  </seq>
  <seq y:self="/rest/config/running/ip/access-list/standard/exit/seq/20000">
    <seq-id>20000</seq-id>
    <action>hard-drop</action>
    <src-host-any-sip>any</src-host-any-sip>
    <count>>true</count>
    <log>>true</log>
  </seq>
</standard>
<extended y:self="/rest/config/running/ip/access-list/extended/acl1">
  <name>acl1</name>
  <seq y:self="/rest/config/running/ip/access-list/extended/acl1/seq/10">
    <seq-id>10</seq-id>
    <action>hard-drop</action>
    <protocol-type>ip</protocol-type>
    <src-host-any-sip>host</src-host-any-sip>
    <src-host-ip>10.60.20.54</src-host-ip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <vlan>300</vlan>
    <count>>true</count>
    <log>>true</log>
  </seq>
  <seq y:self="/rest/config/running/ip/access-list/extended/acl1/seq/20">
    <seq-id>20</seq-id>
    <action>permit</action>
    <protocol-type>udp</protocol-type>
    <src-host-any-sip>host</src-host-any-sip>
    <src-host-ip>10.11.12.40</src-host-ip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <vlan>300</vlan>
    <count>>true</count>
    <log>>true</log>
  </seq>
  <seq y:self="/rest/config/running/ip/access-list/extended/acl1/seq/30">
    <seq-id>30</seq-id>
    <action>permit</action>
    <protocol-type>ip</protocol-type>
    <src-host-any-sip>any</src-host-any-sip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <vlan>100</vlan>
    <count>>true</count>
    <log>>true</log>
  </seq>
</extended>
<extended y:self="/rest/config/running/ip/access-list/extended/acl13">
  <name>acl13</name>
  <seq y:self="/rest/config/running/ip/access-list/extended/acl13/seq/5">
    <seq-id>5</seq-id>
    <action>deny</action>
    <protocol-type>udp</protocol-type>
    <src-host-any-sip>host</src-host-any-sip>
    <src-host-ip>10.25.24.74</src-host-ip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <dscp>af22</dscp>
    <vlan>500</vlan>
    <count>>true</count>
    <log>>true</log>
  </seq>
</extended>

```

4 Configuration APIs

```
</seq>
<seq y:self="/rest/config/running/ip/access-list/extended/acl13/seq/10">
  <seq-id>10</seq-id>
  <action>deny</action>
  <protocol-type>icmp</protocol-type>
  <src-host-any-sip>any</src-host-any-sip>
  <dst-host-any-dip>host</dst-host-any-dip>
  <dst-host-ip>10.20.24.25</dst-host-ip>
  <vlan>1100</vlan>
  <count>>true</count>
  <log>>true</log>
</seq>
<seq y:self="/rest/config/running/ip/access-list/extended/acl13/seq/20">
  <seq-id>20</seq-id>
  <action>hard-drop</action>
  <protocol-type>ip</protocol-type>
  <src-host-any-sip>host</src-host-any-sip>
  <src-host-ip>10.20.26.58</src-host-ip>
  <dst-host-any-dip>any</dst-host-any-dip>
  <dscp>cs7</dscp>
  <vlan>300</vlan>
  <count>>true</count>
  <log>>true</log>
</seq>
<seq y:self="/rest/config/running/ip/access-list/extended/acl13/seq/30">
  <seq-id>30</seq-id>
  <action>permit</action>
  <protocol-type>tcp</protocol-type>
  <src-host-any-sip>10.25.36.96</src-host-any-sip>
  <src-mask>10.24.21.17</src-mask>
  <dst-host-any-dip>host</dst-host-any-dip>
  <dst-host-ip>10.25.52.56</dst-host-ip>
  <vlan>300</vlan>
  <count>>true</count>
  <log>>true</log>
</seq>
</extended>
</access-list>
```

The following is an example of the POST operation to create a standard access list.

URI

`http://host:80/rest/config/running/ip/access-list`

Request body

```
<standard>
  <name>test</name>
</standard>
```

Response body

None

The following is an example of the DELETE operation to remove an extended access list.

URI

`http://host:80/rest/config/running/ip/access-list/extended/acl`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

ip/dns

Configures, modifies, or retrieves the Domain Name System (DNS) server configurations in the system.

Resource URIs

URI	Description
<base_URI>/config/running/ip	The Internet Protocol configuration
<base_URI>/config/running/ip/dns	Domain name system configuration

Parameters

Name	Description
<i>domain-name</i>	Specifies the domain name
<i>name-server</i>	The IPv4 or IPv6 address for name server

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ip/dns
```

Request body

None

Response body

```
<dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration"
y:self="/rest/config/running/ip/dns">
  <domain-name>domain1</domain-name>
  <name-server y:self="/rest/config/running/ip/dns/name-server/10.20.34.100">
    <name-server-ip>10.20.34.100</name-server-ip>
  </name-server>
</dns>
```

The following is an example of the DELETE operation to remove the name server configuration.

URI

```
http://host:80/rest/config/running/ip/dns/name-server
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

ip/igmp

Configures, modifies, or retrieves the Internet Group Management Protocol (IGMP) configuration.

Resource URIs

URI	Description
<base_URI>/config/running/ip	The Internet Protocol configuration
<base_URI>/config/running/ip/igmp	IGMP configuration
<base_URI>/config/running/ip/igmp/snooping	Layer 2 snooping configuration

Parameters

Name	Description
<i>enable</i>	Enables IGMP snooping

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ip/igmp
```

Request body

None

Response body

```
<igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ip/igmp">
  <snooping y:self="/rest/config/running/ip/igmp/snooping">
    <enable>true</enable>
  </snooping>
</igmp>
```

The following is an example of the PUT operation to modify IGMP snooping configuration.

URI

```
http://host:80/rest/config/running/ip/igmp
```

Request body

```
<igmp>
  <query-interval>78</query-interval>
</igmp>
```


Response body

None

The following is an example of the DELETE operation to disable IGMP snooping or to disable restricting unknown multicast traffic.

URI

`http://host:80/rest/config/running/ip/igmp/snooping`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

ipv6

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6).

Resource URIs

URI	Description
<base_URI>/config/running/ipv6	The Internet Protocol
<base_URI>/config/running/ipv6/access-list	IPv6 access list configuration
<base_URI>/config/running/ipv6/mld/snooping	Layer 2 snooping configuration

Parameters

Name	Description
<i>mld</i>	Configures Multicast Listener Discovery (MLD) Snooping parameters. Refer to ipv6/mld for information.
<i>access-list</i>	Configures IPv6 access list parameters. Refer to ipv6/access-list for more information

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ipv6
```

Request body

None

Response body

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-mld-snooping"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ipv6">
  <mld y:self="/rest/config/running/ipv6/mld"/>
    <access-list xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/ipv6/access-list"/>
</ipv6>
```

History

Release version	History
5.0.0	The API call was introduced.

ipv6/access-list

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6) access list configuration.

Resource URIs

URI	Description
<base_URI>/config/running/ipv6	The Internet Protocol configuration
<base_URI>/config/running/ipv6/access-list/standard	Standard IP ACL configuration
<base_URI>/config/running/ipv6/access-list/standard/{ACL-name}/seq	Sequence number configuration
<base_URI>/config/running/ipv6/access-list/extended	Extended IP ACL configuration
<base_URI>/config/running/ipv6/access-list/extended/{ACL-name}/seq	Sequence number configuration

Parameters

Name	Description
<i>name</i>	Specifies the IPv6 access list name
<i>seq</i>	Specifies the sequence number
<i>seq-id</i>	Specifies the sequence number for the rule
<i>action</i>	Specifies the action to be performed. Supported actions are deny , hard-drop and permit . Configuring deny drops traffic. Configuring hard-drop force drops traffic. Configuring permit allows traffic
<i>src-host-any-sip</i>	Specifies any source host IP address
<i>src-host-ip</i>	Specifies the source host IP address
<i>count</i>	Enables the counting of the packets matching the rule
<i>log</i>	Packets matching the filter are sent to the CPU and a corresponding log entry is generated by enabling the logging mechanism. This parameter is only available with permit and deny
<i>protocol-type</i>	The type of protocol used
<i>dst-host-any-dip</i>	Specifies any destination host IP address
<i>dst-host-ip</i>	Specifies the destination host IP address
<i>vlan</i>	VLAN interface number

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/ipv6/access-list

Request body

None

Response body

```
<access-list xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/ipv6/access-list">
  <standard y:self="/rest/config/running/ipv6/access-list/standard/ipv6acl1">
    <name>ipv6acl1</name>
    <seq
y:self="/rest/config/running/ipv6/access-list/standard/ipv6acl1/seq/10">
      <seq-id>10</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10:20:45:30:15:75:100:110</src-host-ip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq
y:self="/rest/config/running/ipv6/access-list/standard/ipv6acl1/seq/20">
      <seq-id>20</seq-id>
      <action>permit</action>
      <src-host-any-sip>any</src-host-any-sip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq
y:self="/rest/config/running/ipv6/access-list/standard/ipv6acl1/seq/50000">
      <seq-id>50000</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>any</src-host-any-sip>
      <count>true</count>
      <log>true</log>
    </seq>
  </standard>
  <extended y:self="/rest/config/running/ipv6/access-list/extended/acl16">
    <name>acl16</name>
    <seq y:self="/rest/config/running/ipv6/access-list/extended/acl16/seq/10">
      <seq-id>10</seq-id>
      <action>deny</action>
      <protocol-type>ipv6</protocol-type>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10:20:14:45:56:58:45:78</src-host-ip>
      <dst-host-any-dip>any</dst-host-any-dip>
      <vlan>100</vlan>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ipv6/access-list/extended/acl16/seq/20">
      <seq-id>20</seq-id>
      <action>hard-drop</action>
      <protocol-type>ipv6</protocol-type>
      <src-host-any-sip>any</src-host-any-sip>
      <dst-host-any-dip>host</dst-host-any-dip>
      <dst-host-ip>10:45:78:54:45:78:52:87</dst-host-ip>
```

```

    <vlan>1100</vlan>
    <count>true</count>
    <log>true</log>
  </seq>
  <seq y:self="/rest/config/running/ipv6/access-list/extended/acl16/seq/30">
    <seq-id>30</seq-id>
    <action>permit</action>
    <protocol-type>tcp</protocol-type>
    <src-host-any-sip>any</src-host-any-sip>
    <dst-host-any-dip>host</dst-host-any-dip>
    <dst-host-ip>10:78:85:74:78:45:78:45</dst-host-ip>
    <vlan>1200</vlan>
    <count>true</count>
    <log>true</log>
  </seq>
  <seq y:self="/rest/config/running/ipv6/access-list/extended/acl16/seq/4500">
    <seq-id>4500</seq-id>
    <action>hard-drop</action>
    <protocol-type>ipv6</protocol-type>
    <src-host-any-sip>any</src-host-any-sip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <vlan>4500</vlan>
    <count>true</count>
    <log>true</log>
  </seq>
</extended>
<extended y:self="/rest/config/running/ipv6/access-list/extended/ip_acl_1">
  <name>ip_acl_1</name>
  <seq
y:self="/rest/config/running/ipv6/access-list/extended/ip_acl_1/seq/10">
    <seq-id>10</seq-id>
    <action>deny</action>
    <protocol-type>ipv6</protocol-type>
    <src-host-any-sip>2001:2002:1234:1::/64</src-host-any-sip>
    <dst-host-any-dip>2001:1001:1234:1::/64</dst-host-any-dip>
    <count>true</count>
  </seq>
  <seq
y:self="/rest/config/running/ipv6/access-list/extended/ip_acl_1/seq/20">
    <seq-id>20</seq-id>
    <action>deny</action>
    <protocol-type>ipv6</protocol-type>
    <src-host-any-sip>2002:2003:1234:1::/64</src-host-any-sip>
    <dst-host-any-dip>2001:3001:1234:1::/64</dst-host-any-dip>
    <count>true</count>
  </seq>
</extended>
</access-list>

```

The following is an example of the POST operation to create an extended access list.

URI

`http://host:80/rest/config/running/ipv6/access-list`

Request body

```

<extended>
  <name>test</name>
</extended>

```

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Response body

None

The following is an example of the DELETE operation to remove a standard access list.

URI

`http://host:80/rest/config/running/ipv6/access-list/standard/ipv6acl1`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

ipv6/mld

Configures, modifies, or retrieves the Multicast Listener Discovery (MLD) snooping configuration.

Resource URIs

URI	Description
<base_URI>/config/running/ipv6	The Internet Protocol configuration
<base_URI>/config/running/ipv6/mld/snooping	Layer 2 snooping configuration

Parameters

Name	Description
<i>enable</i>	Enables MLD Snooping
<i>restrict-unknown-multicast</i>	Restricts Unknown Multicast traffic

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ipv6/mld
```

Request body

None

Response body

```
<mld xmlns="urn:brocade.com:mgmt:brocade-mld-snooping"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ipv6/mld">
  <snooping y:self="/rest/config/running/ipv6/mld/snooping">
    <enable>true</enable>
    <restrict-unknown-multicast>true</restrict-unknown-multicast>
  </snooping>
</mld>
```

History

Release version	History
5.0.0	The API call was introduced.

lACP

Configures, modifies, or retrieves LACP commands.

Resource URIs

URI	Description
<base_URI>/config/running/lACP	LACP commands

Parameters

Name	Description
system-priority	Specifies the LACP system priority. The value can range from 1 through 65535. The default value is 32768

Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/lACP

Request body

None

Response body

```
<lACP xmlns="urn:brocade.com:mgmt:brocade-lACP"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/lACP">
  <system-priority>32799</system-priority>
</lACP>
```

The following is an example of the PUT operation to set the system priority.

URI

http://host:80/rest/config/running/lACP

Request body

```
<lACP>
  <system-priority>32200</system-priority>
</lACP>
```

Response body

None

The following is an example of the DELETE operation to remove a system priority configuration.

URI

`http://host:80/rest/config/running/lacp`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

ldap-server

Configures, modifies, or retrieves LDAP server settings.

Resource URIs

URI	Description
<base_URI>/config/running/ldap-server	LDAP server configuration
<base_URI>/config/running/ldap-server/host	LDAP Server for AAA. Refer to ldap-server/host for information
<base_URI>/config/running/ldap-server/maprole	Maps a role to a group. Refer to ldap-server/maprole for information

Parameters

Name	Description
host	Configures a LDAP server for AAA
maprole	Maps a role to the group

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/ldap-server`

Request body

None

Response body

```
<ldap-server xmlns="urn:brocade.com:mgmt:brocade-aaa" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ldap-server">
  <host y:self="/rest/config/running/ldap-server/host/inetaddress"/>
  <maprole y:self="/rest/config/running/ldap-server/maprole"/>
</ldap-server>
```

History

Release version	History
5.0.0	The API call was introduced.

ldap-server/host

Configures, modifies, or retrieves LDAP server for AAA settings.

Resource URIs

URI	Description
<base_URI>/config/running/ldap-server/host	LDAP Server for AAA

Parameters

Name	Description
<i>hostname</i>	LDAP server host name
<i>port</i>	TCP authentication port. The number of characters can reange from 1 through 255
<i>retries</i>	Number of retries for this server connection. The number of retries can range from 0 through 100. The default number of retries is 5
<i>timeout</i>	Number of retries for this server connection. The number of retries can range from 0 through 100. The default number of retries is 5
<i>use-vrf</i>	Specifies the VRF name
<i>basedn</i>	Base domain name. The number of characters can reange from 1 through 255

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ldap-server/host
```

Request body

None

Response body

```
<host y:self="/rest/config/running/ldap-server/host/inetaddress">
  <hostname>inetaddress</hostname>
  <port>400</port>
  <retries>6</retries>
  <timeout>10</timeout>
  <basedn>test</basedn>
  <use-vrf>mgmt-vrf</use-vrf>
</host>
<host y:self="/rest/config/running/ldap-server/host/test">
  <hostname>test</hostname>
</host>
```

The following is an example of the POST operation to add an LDAP server to the client server list.

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URI

`http://host:80/rest/config/running/ldap-server`

Request body

```
<host>
  <hostname>test_ACL</hostname>
</host>
```

Response body

None

The following is an example of the DELETE operation to remove an LDAP server.

URI

`http://host:80/rest/config/running/ldap-server/host/test_API`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
7.0.0	The API call was modified to include the parameter <i>use-vrf</i> .

ldap-server/maprole

Configures, modifies, or retrieves LDAP server settings for maps.

Resource URIs

URI	Description
<base_URI>/config/running/ldap-server/maprole	Maps a role to a group

Parameters

Name	Description
<i>ad-group</i>	AD group belongs to user on the AD Server
<i>role</i>	Specifies the role name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ldap-server/maprole
```

Request body

None

Response body

```
<maprole y:self="/rest/config/running/ldap-server/maprole">
  <group y:self="/rest/config/running/ldap-server/maprole/group/administrator">
    <ad-group>administrator</ad-group>
    <role>admin</role>
  </group>
</maprole>
```

The following is an example of the POST operation to map a role to a group.

URI

```
http://host:80/rest/config/running/ldap-server/maprole
```

Request body

```
<group>
  <ad-group>administrator</ad-group>
  <role>admin</role>
</group>
```

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Response body

None

The following is an example of the DELETE operation to a maprole configuration.

URI

`http://host:80/rest/config/running/ldap-server/maprole/group`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

line

Configures, modifies, or retrieves CLI session configuration.

Resource URIs

URI	Description
<base_URI>/config/running/line	CLI session

Parameters

Name	Description
sessionid	Specifies the terminal type
exec-timeout	Specifies CLI session maximum idle time before automatic logout. The timeout value can range from 0 through 130 minutes. The default timeout value is set to 0 minute

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/line
```

Request body

None

Response body

```
<line xmlns="urn:brocade.com:mgmt:brocade-terminal"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/line/vty">
  <sessionid>vty</sessionid>
  <exec-timeout>10</exec-timeout>
</line>
```

The following is an example of the DELETE operation to remove the line configuration.

URI

```
http://host:80/rest/config/running/line
```

Request body

None

Response body

None

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History

Release version	History
5.0.0	The API call was introduced.

logging

Configures, modifies, or retrieves logging configuration (RASLOG or syslog).

Resource URIs

URI	Description
<base_URI>/config/running/logging	Logging configuration: RASLOG or syslog
<base_URI>/config/running/logging/auditlog	Audit log. Refer to logging/auditlog for information
<base_URI>/config/running/logging/raslog	RASLOG message/module. Refer to logging/raslog for information
<base_URI>/config/running/logging/syslog-client	Syslog Client. Refer to logging/syslog-client for information
<base_URI>/config/running/logging/syslog-facility	Syslog facility. Refer to logging/syslog-facility for information
<base_URI>/config/running/logging/syslog-server	Syslog server address. Refer to logging/syslog-server for information

Parameters

Name	Description
<i>auditlog</i>	Configures audit log
<i>raslog</i>	Configures raslog message or module
<i>syslog-client</i>	Configures syslog client
<i>syslog-facility</i>	Configures syslog facility
<i>syslog-server</i>	Configures upto four syslog server address

Usage guidelines

GET, POST, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/logging
```

Request body

None

Response body

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/logging">
  <raslog y:self="/rest/config/running/logging/raslog"/>
```

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```
<syslog-server
y:self="/rest/config/running/logging/syslog-server/10.20.58.160"/>
  <auditlog y:self="/rest/config/running/logging/auditlog"/>
    <syslog-facility y:self="/rest/config/running/logging/syslog-facility"/>
    <syslog-client y:self="/rest/config/running/logging/syslog-client"/>
  </logging>
```

History

Release version	History
5.0.0	The API call was introduced.

logging/auditlog

Configures, modifies, or retrieves audit log configurations.

Resource URIs

URI	Description
<base_URI>/config/running/logging/auditlog	Audit log

Parameters

Name	Description
class	Specifies auditlog class. Supported configurations are CONFIGURATION , FIRMWARE or SECURITY

Usage guidelines

GET, POST, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/logging/auditlog
```

Request body

None

Response body

```
<auditlog y:self="/rest/config/running/logging/auditlog">
  <class y:self="/rest/config/running/logging/auditlog/class/SECURITY">
    <class>SECURITY</class>
  </class>
  <class y:self="/rest/config/running/logging/auditlog/class/CONFIGURATION">
    <class>CONFIGURATION</class>
  </class>
  <class y:self="/rest/config/running/logging/auditlog/class/FIRMWARE">
    <class>FIRMWARE</class>
  </class>
</auditlog>
```

The following is an example of the POST operation to add auditlog configuration.

URI

```
http://host:80/rest/config/running/logging/auditlog
```

Request body

```
<class>
  <class>SECURITY</class>
</class>
```

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Response body

None

The following is an example of the DELETE operation to remove an auditlog configuration.

URI

```
http://host:80/rest/config/running/logging/auditlog/class/SECURITY
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

logging/raslog

Configures, modifies, or retrieves raslog configuration.

Resource URIs

URI	Description
<base_URI>/config/running/logging/raslog	RASLOG message/module

Parameters

Name	Description
console	Specifies RASLOG console severity. Supported configurations are CRITICAL , ERROR , INFO or WARNING

Usage guidelines

GET, POST, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/logging/raslog
```

Request body

None

Response body

```
<raslog y:self="/rest/config/running/logging/raslog">
  <console>WARNING</console>
</raslog>
```

History

Release version	History
5.0.0	The API call was introduced.

logging/syslog-client

Configures, modifies, or retrieves syslog client configuration.

Resource URIs

URI	Description
<base_URI>/config/running/logging/syslog-client	Syslog Client

Parameters

Name	Description
<i>localip</i>	Specifies local IP type. Supported configurations are CHASSIS_IP or MM_IP

Usage guidelines

GET, POST, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/logging/syslog-client
```

Request body

None

Response body

```
<syslog-client y:self="/rest/config/running/logging/syslog-client">
  <localip>CHASSIS_IP</localip>
</syslog-client>
```

The following is an example of the PUT operation to add syslog client configuration.

URI

```
http://host:80/rest/config/running/logging/syslog-client
```

Request body

```
<syslog-client>
  <localip>MM_IP</localip>
</syslog-client>
```

Response body

None

The following is an example of the DELETE operation to remove an syslog client configuration.

URI

```
http://host:80/rest/config/running/logging/syslog-client/localip
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

logging/syslog-facility

Configures, modifies, or retrieves syslog facility configuration.

Resource URIs

URI	Description
<base_URI>/config/running/logging/syslog-facility	Syslog facility

Parameters

Name	Description
local	Specifies SYSLOG facility

Usage guidelines

GET, POST, PUT, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/logging/syslog-facility
```

Request body

None

Response body

```
<syslog-facility y:self="/rest/config/running/logging/syslog-facility">
  <local>LOG_LOCAL3</local>
</syslog-facility>
```

The following is an example of the PUT operation to add syslog facility configuration.

URI

```
http://host:80/rest/config/running/logging/syslog-facility
```

Request body

```
<syslog-facility>
  <local>LOG_LOCAL0</local>
</syslog-facility>
```

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

logging/syslog-server

Configures, modifies, or retrieves syslog server configurations.

Resource URIs

URI	Description
<base_URI>/config/running/logging/syslog-server	Syslog server configuration

Parameters

Name	Description
<i>syslogip</i>	Specifies the IPv4 or IPv6 address
<i>port</i>	Port number on which the syslog server is listening
<i>secure</i>	Indicates if transport is secure
<i>use-vrf</i>	Specifies the VRF name

Usage guidelines

GET, POST, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/logging/syslog-server
```

Request body

None

Response body

```
<syslog-server y:self="/rest/config/running/logging/syslog-server/10.20.58.160">
  <syslogip>10.20.58.160</syslogip>
  <secure>true</secure>
  <port>65050</port>
  <use-vrf>mgmt-vrf</use-vrf>
</syslog-server>
```

The following is an example of the POST operation to add a syslog server configuration.

URI

```
http://host:80/rest/config/running/logging
```

Request body

```
<syslog-server>
  <syslogip>10.20.58.162</syslogip>
</syslog-server>
```

Response body

None

The following is an example of the DELETE operation to remove a syslog server.

URI

`http://host:80/rest/config/running/logging/syslog-server/10.20.58.179`

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.
7.0.0	The API call was modified to include the parameter <i>use-vrf</i> .

mac

Configures, modifies, or retrieves MAC access list.

Resource URIs

URI	Description
<base_URI>/config/running/mac	MAC access list
<base_URI>/config/running/mac/access-list/standard	Standard MAC ACL
<base_URI>/config/running/mac/access-list/standard/{ACL-name}/seq	Sequence number
<base_URI>/config/running/mac/access-list/extended	Extended IP ACL
<base_URI>/config/running/mac/access-list/extended/{ACL-name}/seq	Sequence number

Parameters

Name	Description
<i>name</i>	Specifies the MAC access list name
<i>seq</i>	Configure the sequence number
<i>seq-id</i>	Specifies the sequence ID
<i>action</i>	Specifies the action to be performed. Supported actions are deny , hard-drop and permit . Configuring deny drops traffic. Configuring hard-drop force drops traffic. Configuring permit allows traffic
<i>source</i>	Specifies the source details
<i>dst</i>	Specifies details on the destination
<i>dsthost</i>	Specifies the destination host
<i>ethertype</i>	Filters extended ACLs traffic based on ethertype
<i>vlan</i>	Specifies the VLAN number
<i>log</i>	Enables log
<i>count</i>	Displays the count of forwarding entries
<i>srchost</i>	Specifies the source host

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/mac
```

Request body

None

Response body

```

<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/mac">
  <access-list y:self="/rest/config/running/mac/access-list">
    <standard y:self="/rest/config/running/mac/access-list/standard/TEST_ACL">
      <name>TEST_ACL</name>
      <seq
y:self="/rest/config/running/mac/access-list/standard/TEST_ACL/seq/3">
        <seq-id>3</seq-id>
        <action>hard-drop</action>
        <source>any</source>
      </seq>
      <seq
y:self="/rest/config/running/mac/access-list/standard/TEST_ACL/seq/199">
        <seq-id>199</seq-id>
        <action>deny</action>
        <source>any</source>
      </seq>
    </standard>
    <standard y:self="/rest/config/running/mac/access-list/standard/acl2">
      <name>acl2</name>
    </standard>
    <standard y:self="/rest/config/running/mac/access-list/standard/stdmac">
      <name>stdmac</name>
    </standard>
    <extended y:self="/rest/config/running/mac/access-list/extended/MM">
      <name>MM</name>
    </extended>
    <extended y:self="/rest/config/running/mac/access-list/extended/acl12">
      <name>acl12</name>
      <seq y:self="/rest/config/running/mac/access-list/extended/acl12/seq/10">
        <seq-id>10</seq-id>
        <action>permit</action>
        <source>any</source>
        <dst>host</dst>
        <dsthost>0011.2222.2233</dsthost>
        <ethertype>arp</ethertype>
        <vlan>300</vlan>
        <log>true</log>
      </seq>
    </extended>
    <extended y:self="/rest/config/running/mac/access-list/extended/acl4">
      <name>acl4</name>
      <seq y:self="/rest/config/running/mac/access-list/extended/acl4/seq/10">
        <seq-id>10</seq-id>
        <action>deny</action>
        <source>any</source>
        <dst>any</dst>
        <ethertype>arp</ethertype>
        <count>true</count>
      </seq>
    </extended>
    <extended y:self="/rest/config/running/mac/access-list/extended/acl5">
      <name>acl5</name>
      <seq y:self="/rest/config/running/mac/access-list/extended/acl5/seq/10">

```

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```
<seq-id>10</seq-id>
<action>permit</action>
<source>any</source>
<dst>any</dst>
<vlan>100</vlan>
<log>>true</log>
</seq>
<seq y:self="/rest/config/running/mac/access-list/extended/ac15/seq/20">
  <seq-id>20</seq-id>
  <action>permit</action>
  <source>host</source>
  <srchost>0011.2222.3333</srchost>
  <dst>any</dst>
  <ethertype>arp</ethertype>
  <vlan>100</vlan>
  <count>>true</count>
  <log>>true</log>
</seq>
</extended>
<extended
y:self="/rest/config/running/mac/access-list/extended/mac-acl-lldp">
  <name>mac-acl-lldp</name>
  <seq
y:self="/rest/config/running/mac/access-list/extended/mac-acl-lldp/seq/10">
    <seq-id>10</seq-id>
    <action>permit</action>
    <source>any</source>
    <dst>host</dst>
    <dsthost>0180.c200.000e</dsthost>
    <count>>true</count>
  </seq>
</extended>
</access-list>
</mac>
```

The following is an example of the POST operation to add a new access list name to the MAC access list.

URI

`http://host:80/rest/config/running/mac/access-list`

Request body

```
<standard>
  <name>test_API</name>
</standard>
```

Response body

None

The following is an example of the DELETE operation to remove an extended access list from the MAC access list.

URI

`http://host:80/rest/config/running/mac/access-list/extended/ac12`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

mac-address-table

Configures, modifies, or retrieves MAC forwarding table information.

Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table	MAC forwarding table information
<base_URI>/config/running/mac-address-table/aging-time	Aging time. Refer to mac-address-table/aging-time for information
<base_URI>/config/running/mac-address-table/consistency-check	MAC consistency check. Refer to mac-address-table/consistency-check for information
<base_URI>/config/running/mac-address-table/mac-move	MAC move. Refer to mac-address-table/mac-move for information
<base_URI>/config/running/mac-address-table/static	Static address. Refer to mac-address-table/static for information

Parameters

Name	Description
<i>learning-mode</i>	Enables conversational learning mode
<i>aging-time</i>	Configures conversational aging time
<i>consistency-check</i>	Configures MAC consistency check
<i>mac-move</i>	Configures MAC move
<i>static</i>	Configures static address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/mac-address-table
```

Request body

None

Response body

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/mac-address-table">
```



```
<static
y:self="/rest/config/running/mac-address-table/static/0011.2222.3333%2Cforward%2
Cport-channel%2C25%2Cvlan%2C100"/>
  <learning-mode>conversational</learning-mode>
  <aging-time y:self="/rest/config/running/mac-address-table/aging-time"/>>
  <mac-move y:self="/rest/config/running/mac-address-table/mac-move"/>
  <consistency-check
y:self="/rest/config/running/mac-address-table/consistency-check"/>
</mac-address-table>
```

History

Release version	History
5.0.0	The API call was introduced.

mac-address-table/aging-time

Configures, modifies, or retrieves MAC aging time configuration.

Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table/aging-time	Configures aging time

Parameters

Name	Description
legacy-time-out	Seconds in standalone mode. The value can range from 60 through 100000 seconds

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/mac-address-table/aging-time

Request body

None

Response body

```
<aging-time y:self="/rest/config/running/mac-address-table/aging-time">  
  <legacy-time-out>350</legacy-time-out>  
</aging-time>
```

The following is an example of the PATCH operation to edit the legacy timeout.

URI

http://host:80/rest/config/running/mac-address-table

Request body

```
<mac-address-table>  
  <aging-time>  
    <legacy-time-out>360</legacy-time-out>  
  </aging-time>  
</mac-address-table>
```

History

Release version	History
5.0.0	The API call was introduced.

mac-address-table/consistency-check

Configures, modifies, or retrieves MAC consistency check configuration.

Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table/consistency-check	MAC consistency check

Parameters

Name	Description
<i>suppress</i>	Suppresses MAC consistency check
<i>interval</i>	Specifies MAC consistency check interval in seconds. The interval can range from 120 through 3600 seconds. The interval is 300 seconds

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/mac-address-table/consistency-check
```

Request body

None

Response body

```
<consistency-check
y:self="/rest/config/running/mac-address-table/consistency-check">
  <suppress>true</suppress>
  <interval>150</interval>
</consistency-check>
```

The following is an example of the PUT operation to add consistency check configurations.

URI

```
http://host:80/rest/config/running/mac-address-table/consistency-check
```

Request body

```
<consistency-check>
  <interval>150</interval>
</consistency-check>
```

Response body

None

The following is an example of the DELETE operation to remove a consistency check interval.

URI

`http://host:80/rest/config/running/mac-address-table/consistency-check/interval`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

mac-address-table/mac-move

Configures, modifies, or retrieves MAC move configuration.

Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table/mac-move	Configures MAC move parameters

Parameters

Name	Description
<i>detect</i>	Enables MAC move detect
<i>limit</i>	Specifies MAC move detect limit. The value can range from 5 through 500. The default value is 20

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/mac-address-table/mac-move
```

Request body

None

Response body

```
<mac-move y:self="/rest/config/running/mac-address-table/mac-move">  
  <detect>true</detect>  
  <limit>20</limit>  
</mac-move>
```

The following is an example of the DELETE operation to remove the MAC move detect limit.

URI

```
http://host:80/rest/config/running/mac-address-table/mac-move/limit
```

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

mac-address-table/static

Configures, modifies, or retrieves static address information.

Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table/static	Static address

Parameters

Name	Description
<i>mac-address</i>	Specifies the MAC address. MAC address in HHHH.HHHH.HHHH format
<i>forward</i>	Forwards the MAC address to the interface
<i>interface-type</i>	Specifies the interface type
<i>interface-name</i>	Specifies the interface name
<i>vlanid</i>	Specifies the VLAN number

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/mac-address-table/static
```

Request body

None

Response body

```
<static
y:self="/rest/config/running/mac-address-table/static/0011.2222.3333%2Cforward%2
Cport-channel%2C25%2Cvlan%2C100">
  <mac-address>0011.2222.3333</mac-address>
  <forward>forward</forward>
  <interface-type>port-channel</interface-type>
  <interface-name>25</interface-name>
  <vlan>vlan</vlan>
  <vlanid>100</vlanid>
</static>
```

The following is an example of the DELETE operation to remove the static configurations.

URI

```
http://host:80/rest/config/running/mac-address-table/static
```


Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

mac-group

Configures, modifies, or retrieves MAC group configuration.

Resource URIs

URI	Description
<base_URI>/config/running/mac-group	MAC group configuration
<base_URI>/config/running/mac-group/mac-group-entry	Add mac-address to the mac-group

Parameters

Name	Description
mac-group-id	Specifies MAC group ID. The value can range from 1 through 500
entry-address	Specifies MAC address in HHHH.HHHH.HHHH format

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/mac-group

Request body

None

Response body

```
<mac-group xmlns="urn:brocade.com:mgmt:brocade-mac-address-table"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/mac-group">
  <mac-group-id>1</mac-group-id>
  <mac-group-entry>
    <entry-address>000a.0001.0001</entry-address>
  </mac-group-entry>
</mac-group>
```

The following is an example of the POST operation to create a mac-group.

URI

http://host:80/rest/config/running/

Request body

```
<mac-group>
  <mac-group-id>78</mac-group-id>
</mac-group>
```

Response body

None

The following is an example of the DELETE operation to remove a mac-group.

URI

`http://host:80/rest/config/running/mac-group`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

monitor

Configures, modifies, or retrieves SPAN sessions.

Resource URIs

URI	Description
<base_URI>/config/running/monitor	Entering SPAN sessions

Parameters

Name	Description
<i>session-number</i>	Specifies the session ID. The value can range from 1 through 512
<i>destination</i>	Specifies the destination port
<i>source</i>	Specifies the source port
<i>description</i>	Specifies the session description

Usage guidelines

GET, POST, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/monitor`

Request body

None

Response body

```
<monitor xmlns="urn:brocade.com:mgmt:brocade-span"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/monitor">
  <session y:self="/rest/config/running/monitor/session/10">
    <session-number>10</session-number>
    <destination>destination</destination>
    <dest-tengigabitethernet>FortyGigabitEthernet</dest-tengigabitethernet>
    <dest-tengigabitethernet-val>54/0/49</dest-tengigabitethernet-val>
  </session>
  <session y:self="/rest/config/running/monitor/session/20">
    <session-number>20</session-number>
    <source>source</source>
    <src-tengigabitethernet>FortyGigabitEthernet</src-tengigabitethernet>
    <src-tengigabitethernet-val>54/0/50</src-tengigabitethernet-val>
    <destination>destination</destination>
    <dest-tengigabitethernet>FortyGigabitEthernet</dest-tengigabitethernet>
    <dest-tengigabitethernet-val>54/0/49</dest-tengigabitethernet-val>
    <direction>both</direction>
  </session>
```

```
</monitor>
```

The following is an example of the POST operation to add a session to the monitor.

URI

```
http://host:80/rest/config/running/monitor
```

Request body

```
<session>  
  <session-number>50</session-number>  
</session>
```

Response body

None

The following is an example of the DELETE operation to remove a session from the monitor session.

URI

```
http://host:80/rest/config/running/monitor/session/25
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

nas

Configures, modifies, or retrieves network attached storage configurations.

Resource URIs

URI	Description
<base_URI>/config/running/nas	Network attached storage
<base_URI>/config/running/nas/auto-qos	Automatic quality of service. Refer to nas/auto-qos for information
<base_URI>/config/running/nas/server-ip	NAS server. Refer to nas/server-ip for information

Parameters

Name	Description
<i>auto-qos</i>	Configures Automatic Quality of Service parameters
<i>server-ip</i>	Configures NAS server IP address parameters

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/nas`

Request body

None

Response body

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/nas">
  <auto-qos y:self="/rest/config/running/nas/auto-qos" />
  <server-ip
y:self="/rest/config/running/nas/server-ip/%2210.192.100.100/32%22" />
</nas>
```

History

Release version	History
5.0.0	The API call was introduced.

nas/auto-qos

Configures, modifies, or retrieves automatic Quality of Service configurations.

Resource URIs

URI	Description
<base_URI>/config/running/nas/auto-qos	Automatic quality of service
<base_URI>/config/running/nas/auto-qos/set	Class of service and Differentiated services code point

Parameters

Name	Description
cos	Specifies the CoS value. The value can range from 0 through 7
dscp	Specifies the DSCP value. The value can range from 0 through 63

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/nas/auto-qos
```

Request body

None

Response body

```
<auto-qos y:self="/rest/config/running/nas/auto-qos">
  <set y:self="/rest/config/running/nas/auto-qos/set">
    <cos>4</cos>
    <dscp>55</dscp>
  </set>
</auto-qos>
```

The following is an example of the DELETE operation to remove Automatic Quality of Service.

URI

```
http://host:80/rest/config/running/nas
```

Request body

None

Response body

None

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History

Release version	History
5.0.0	The API call was introduced.

nas/server-ip

Configures, modifies, or retrieves network attached storage server configurations.

Resource URIs

URI	Description
<base_URI>/config/running/nas/server-ip	NAS server

Parameters

Name	Description
server-ip	Specifies the IP address
vlan-number	Specifies the Virtual LAN number
vrf-name	Specifies the VRF name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/nas/server-ip
```

Request body

None

Response body

```
<server-ip y:self="/rest/config/running/nas/server-ip/%2210.192.100.100/32%22">
  <server-ip>10.192.100.100/32</server-ip>
  <vrf
y:self="/rest/config/running/nas/server-ip/%2210.192.100.100/32%22/vrf/vrf1">
    <vrf-name>vrf1</vrf-name>
  </vrf>
  <vlan
y:self="/rest/config/running/nas/server-ip/%2210.192.100.100/32%22/vlan/100">
    <vlan-number>100</vlan-number>
  </vlan>
</server-ip>
```

The following is an example of the POST operation to add the server IP details.

URI

```
http://host:80/rest/config/running/nas
```

Request body

```
<server-ip>
```

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```
<server-ip>10.192.100.100/32</server-ip>
<vlan>
  <vlan-number>100</vlan-number>
</vlan>
</server-ip>
```

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

nsx-controller

Configures, modifies, or retrieves NSX controller configurations.

Resource URIs

URI	Description
<base_URI>/config/running/nsx-controller	NSX controller configurations
<base_URI>/config/running/nsx-controller/ip	IP address, port and connection method. Refer to nsx-controller/ip for information

Parameters

Name	Description
<i>name</i>	Specifies the name of the NSX controller
<i>activate</i>	Activates an NSX controller connection profile
<i>reconnect-interval</i>	Specifies the time interval in seconds. The value can range from 1 through 1000. The default value is 10 seconds

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the NSX controller configuration details.

URI

```
http://host:80/rest/config/running/nsx-controller
```

Request body

None

Response body

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/nsx-controller/nsx-cont1">
  <name>nsx-cont1</name>
  <activate>true</activate>
  <ip y:self="/rest/config/running/nsx-controller/nsx-cont1/ip"/>
  <reconnect-interval>15</reconnect-interval>
</nsx-controller>
```

The following is an example of the POST operation to add the NSX controller configuration.

URI

```
http://host:80/rest/config/running
```

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Request body

```
<nsx-controller>
  <name>ABCD</name>
</nsx-controller>
```

Response body

None

The following is an example of the DELETE operation to remove the reconnect interval.

URI

`http://host:80/rest/config/running/nsx-controller/nsx21/reconnect-interval`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

nsx-controller/ip

Configures, modifies, or retrieves IP NSX controller configurations.

Resource URIs

URI	Description
<base_URI>/config/running/nsx-controller/ip	IP address, port and connection method

Parameters

Name	Description
address	Specifies IP address of NSX controller
port	Specifies NSX controller port number
method	Specifies the connection method

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the NSX controller configuration details.

URI

```
http://host:80/rest/config/running/nsx-controller/nsx-cont1/ip
```

Request body

None

Response body

```
<ip y:self="/rest/config/running/nsx-controller/nsx-cont1/ip">
  <address>1.1.1.1</address>
  <port>6652</port>
  <method>ssl</method>
</ip>
```

The following is an example of the PUT operation to add the IP NSX controller configurations.

URI

```
http://host:80/rest/config/running/nsx-controller/nsx21/ip
```

Request body

```
<ip>
  <address>1.1.1.1</address>
  <port>6652</port>
</ip>
```

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Response body

None

The following is an example of the DELETE operation to remove the IP NSX controller address configurations.

URI

```
http://host:80/rest/config/running/nsx-controller/nsx21/ip/address
```

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

ntp

Configures, modifies, or retrieves NTP commands.

Resource URIs

URI	Description
<base_URI>/config/running/ntp	NTP commands
<base_URI>/config/running/ntp/authentication-key	Authentication key. Refer to ntp/authentication-key for information
<base_URI>/config/running/ntp/server	NTP server. Refer to ntp/server for information

Parameters

Name	Description
<i>authentication-key</i>	Configures authentication key parameters
<i>server</i>	Configures NTP server parameters
<i>source-ip</i>	Configures the source ip to be used for NTP

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ntp
```

Request body

None

Response body

```
<ntp xmlns="urn:brocade.com:mgmt:brocade-ntp"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ntp">
  <authentication-key y:self="/rest/config/running/ntp/authentication-key/1"/>
  <server y:self="/rest/config/running/ntp/server/10.24.234.86"/>
  <source-ip>chassis-ip</source-ip>
</ntp>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>source-ip</i> .

ntp/authentication-key

Configures, modifies, or retrieves authentication key configurations.

Resource URIs

URI	Description
<base_URI>/config/running/ntp/authentication-key	Authentication key

Parameters

Name	Description
<i>keyid</i>	Specifies authentication key ID. The value can range from 65535
<i>sha1</i>	SHA1 encryption
<i>encryption-level</i>	Specifies the encryption level

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ntp/authentication-key
```

Request body

None

Response body

```
<authentication-key y:self="/rest/config/running/ntp/authentication-key/1">
  <keyid>1</keyid>
  <sha1>key1</sha1>
  <encryption-level>0</encryption-level>
</authentication-key>
```

The following is an example of the POST operation to add an authentication key ID.

URI

```
http://host:80/rest/config/running/ntp
```

Request body

```
<authentication-key>
  <keyid>65</keyid>
  <md5>test</md5>
</authentication-key>
```


Response body

None

The following is an example of the DELETE operation to remove the authentication key configurations.

URI

`http://host:80/rest/config/running/ntp/authentication-key`

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.

ntp/server

Configures, modifies, or retrieves NTP server configurations.

Resource URIs

URI	Description
<base_URI>/config/running/ntp/server	NTP server

Parameters

Name	Description
ip	NTP server IPv4 or IPv6 IP address
key	Key from the key list to be associated with the specified server. The value can range from 1 through 65535

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ntp/server
```

Request body

None

Response body

```
<server y:self="/rest/config/running/ntp/server/10.24.234.86">  
  <ip>10.24.234.86</ip>  
  <key>55</key>  
</server>
```

The following is an example of the POST operation to add an NTP server IP address.

URI

```
http://host:80/rest/config/running/ntp
```

Request body

```
<server>  
  <ip>1.1.1.1</ip>  
</server>
```

Response body

None

The following is an example of the DELETE operation to remove an NTP server IP address.

URI

`http://host:80/rest/config/running/ntp/server/ip`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

openflow-controller

Configures, modifies, or retrieves OpenFlow controller commands.

Resource URIs

URI	Description
<base_URI>/config/running/openflow-controller	OpenFlow controller configuration
<base_URI>/config/running/openflow-controller/ip	IP address, connection method and port configuration.

Parameters

Name	Description
<i>controller-name</i>	Specifies the name of the openflow controller
<i>address</i>	Specifies the IP address of OpenFlow controller
<i>method</i>	Sets the connection method. Set the connection method as no-ssl (Connect using TCP) or ssl (Connect using SSL)
<i>port</i>	Specifies the OpenFlow controller port number

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/openflow-controller
```

Request body

None

Response body

```
<openflow-controller xmlns="urn:brocade.com:mgmt:brocade-openflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/openflow-controller/test1">
  <controller-name>test1</controller-name>
  <ip y:self="/rest/config/running/openflow-controller/test1/ip">
    <address>1.1.1.1</address>
    <method>ssl</method>
    <port>50</port>
  </ip>
</openflow-controller>
```

The following is an example of the POST operation to add openflow-controller IP configurations.

URI

`http://host:80/rest/config/running/openflow-controller/test1/ip`

Request body

```
<ip>
  <address>10.10.10.10</address>
  <port>55</port>
</ip>
```

Response body

None

The following is an example of the DELETE operation to remove the openflow-controller IP address configuration.

URI

`http://host:80/rest/config/running/openflow-controller/test1/ip`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

overlay-gateway

Configures, modifies, or retrieves overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway	Overlay gateway instances
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}	Overlay gateway instance
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/attach	Attach gateway instance. Refer to overlay-gateway/attach for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/enable	Enable statistics. Refer to overlay-gateway/enable for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/ip	IP Overlay gateway instance. Refer to overlay-gateway/ip for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/ipv6	IPv6 Overlay gateway instance. Refer to overlay-gateway/ipv6 for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/mac	MAC configuration for the overlay-gateway. Refer to overlay-gateway/mac for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/map	Map gateway instance. Refer to overlay-gateway/map for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/monitor	Configure SPAN for the tunnels of this gateway. Refer to overlay-gateway/monitor for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site	Configure remote extension site. Refer to overlay-gateway/site for information.

Parameters

Name	Description
<i>name</i>	Specifies the Overlay Gateway name
<i>type</i>	Specifies the type of Overlay Gateway. Supported types are hardware-vtep and layer2-extension . Configuring hardware-vtep sets the type to NSX Controller/OpenStack integration. Configuring layer2-extension sets the type to Layer 2 extension

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/overlay-gateway
```

Request body

None

Response body

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/overlay-gateway/g1">
  <name>g1</name>
  <type>hardware-vtep</type>
  <ip y:self="/rest/config/running/overlay-gateway/g1/ip"/>
  <attach y:self="/rest/config/running/overlay-gateway/g1/attach"/>
  <map y:self="/rest/config/running/overlay-gateway/g1/map"/>
  <monitor y:self="/rest/config/running/overlay-gateway/g1/monitor"/>
  <enable y:self="/rest/config/running/overlay-gateway/g1/enable"/>
  <mac y:self="/rest/config/running/overlay-gateway/g1/mac"/>
  <ipv6 y:self="/rest/config/running/overlay-gateway/g1/ipv6"/>
  <activate>true</activate>
  <name>og1</name>
  <site xmlns="urn:brocade.com:mgmt:brocade-tunnels"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/overlay-gateway/og1/site/site1"/>
</overlay-gateway>
```

The following is an example of the DELETE operation to remove the overlay gateway configurations.

URI

```
http://host:80/rest/config/running/overlay-gateway
```

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.
7.0.0	This API call was modified to deprecate the nsx keyword and replace it with the hardware-vtep keyword, supporting both NSX Controller and OpenStack deployments.

overlay-gateway/attach

Configures, modifies, or retrieves overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/attach	Attach gateway instance

Parameters

Name	Description
add	Specifies the range of RBridge-ids to add
vid	Specifies the range of VLAN ids to add
mac	Specifies MAC address in HHHH.HHHH.HHHH format

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/overlay-gateway/og1/attach
```

Request body

None

Response body

```
<attach y:self="/rest/config/running/overlay-gateway/og1/attach">
  <rbridge-id
y:self="/rest/config/running/overlay-gateway/og1/attach/rbridge-id">
    <add>1</add>
  </rbridge-id>
  <vlan
y:self="/rest/config/running/overlay-gateway/og1/attach/vlan/1%2C0000.1111.1122"
  >
    <vid>1</vid>
    <mac>0000.1111.1122</mac>
  </vlan>
</attach>
```

History

Release version	History
6.0.0	The API call was introduced.

overlay-gateway/enable

Configures, modifies, or retrieves overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/enable	Enable statistics

Parameters

Name	Description
<i>direction</i>	Specifies the flow direction. Supported directions are both , rx and tx . Configuring both enables both transmitted and received packets. Configuring rx enables received packets. Configuring tx enables transmitted packets
<i>vlan</i>	Specifies the action. Supported actions are add and remove . Configuring add specifies the VLANs to add. Configuring remove specifies the VLANs to remove
<i>vlan-list</i>	Specifies the range of VLAN IDs

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/overlay-gateway/g1/enable
```

Request body

None

Response body

```
<enable y:self="/rest/config/running/overlay-gateway/g1/enable">
  <statistics
y:self="/rest/config/running/overlay-gateway/g1/enable/statistics">
    <direction>both</direction>
    <vlan>add</vlan>
    <vlan-list>1</vlan-list>
  </statistics>
</enable>
```

The following is an example of the PUT operation to add overlay gateway configurations.

URI

```
http://host:80/rest/config/running/overlay-gateway/og1/enable/statistics
```

Request body

```
<statistics>
  <direction>both</direction>
  <vlan>add</vlan>
  <vlan-list>1</vlan-list>
</statistics>
```

Response body

None

The following is an example of the DELETE operation to remove the overlay gateway enable configurations.

URI

`http://host:80/rest/config/running/overlay-gateway/og1/enable/statistics`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

overlay-gateway/ip

Configures, modifies, or retrieves IP overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/ip	IP Overlay gateway instance.

Parameters

Name	Description
ve-id	Specifies VE interface number
vrrp-extended-group	Specifies Virtual Router Identifier. The value can range from 1 through 255
loopback-id	Specifies the Loopback port number

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/overlay-gateway/g1/ip
```

Request body

None

Response body

```
<ip y:self="/rest/config/running/overlay-gateway/g1/ip">
  <interface y:self="/rest/config/running/overlay-gateway/g1/ip/interface">
    <Ve y:self="/rest/config/running/overlay-gateway/g1/ip/interface/Ve">
      <ve-id>10</ve-id>
      <fabric-virtual-gateway
y:self="/rest/config/running/overlay-gateway/gateway1/ip/interface/Ve/fabric-vir
tual-gateway"/>
      <vrrp-extended-group>100</vrrp-extended-group>
    </Ve>
    <Loopback
y:self="/rest/config/running/overlay-gateway/g1/ip/interface/Loopback">
      <loopback-id>121</loopback-id>
    </loopback>
  </interface>
</ip>
```

4 Configuration APIs

History

Release version	History
6.0.0	The API call was introduced.

overlay-gateway/ipv6

Configures, modifies, or retrieves IPv6 overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/ipv6	IPv6 Overlay gateway instance

Parameters

Name	Description
mac-access-list	Specifies the name of the MAC access list

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/overlay-gateway/g1/ipv6
```

Request body

None

Response body

```
<ipv6 y:self="/rest/config/running/overlay-gateway/g1/ipv6">
  <access-group>
    <mac-access-list>stdipv6aclin</mac-access-list>
  </access-group>
</ipv6>
```

History

Release version	History
6.0.0	The API call was introduced.

overlay-gateway/mac

Configures, modifies, or retrieves MAC configuration for the overlay gateway.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/mac	MAC configuration for the overlay-gateway

Parameters

Name	Description
mac-access-list	Specifies the name of the MAC access list
mac-direction	Configures MAC access-group in ingress direction

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/overlay-gateway/g1/mac
```

Request body

None

Response body

```
<mac y:self="/rest/config/running/overlay-gateway/g1/mac">
  <access-group>
    <mac-access-list>test_05</mac-access-list>
    <mac-direction>in</mac-direction>
  </access-group>
</mac>
```

The following is an example of the DELETE operation to remove the overlay gateway MAC configurations.

URI

```
http://host:80/rest/config/running/overlay-gateway/og1/mac/access-group
```

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

overlay-gateway/map

Configures, modifies, or retrieves MAP overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/map	Map gateway instance

Parameters

Name	Description
vniid	Specifies VLAN to VNI mapping for overlay gateway

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/overlay-gateway/g1/map

Request body

None

Response body

```
<map y:self="/rest/config/running/overlay-gateway/g1/map">
  <vlan y:self="/rest/config/running/overlay-gateway/g1/map/vlan">
    <vni y:self="/rest/config/running/overlay-gateway/g1/map/vlan/vni">
      <vniid>5</vniid>
    </vni>
  </vlan>
</map>
```

The following is an example of the POST operation to add overlay gateway MAP configurations.

URI

http://host:80/rest/config/running/overlay-gateway/og1/map

Request body

```
<vlan-vni-mapping>
  <vlan>100</vlan>
  <vni>1</vni>
</vlan-vni-mapping>
```


Response body

None

The following is an example of the DELETE operation to remove the overlay gateway MAC configurations.

URI

`http://host:80/rest/config/running/overlay-gateway/ogl/map/vlan-vni-mapping/100`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

overlay-gateway/monitor

Configures, modifies, or retrieves SPAN configurations for overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/monitor	Configure SPAN for the tunnels of this gateway

Parameters

Name	Description
<i>session</i>	Specifies session number
<i>direction</i>	Specifies the flow direction. Supported directions are both , rx and tx . Configuring both enables both transmitted and received packets. Configuring rx enables received packets. Configuring tx enables transmitted packets
<i>remote-endpoint</i>	Specifies tunnel destination end point address.
<i>vlan-add</i>	Adds target VLAN IDs
<i>vlan-range</i>	Specifies range of VLAN IDs to add or remove

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/overlay-gateway/og1/monitor
```

Request body

None

Response body

```
<monitor y:self="/rest/config/running/overlay-gateway/og1/monitor">
  <session>1</session>
  <direction>both</direction>
  <remote-endpoint>any</remote-endpoint>
  <vlan-add>add</vlan-add>
  <vlan-range>5,14-17</vlan-range>
</monitor>
```

History

Release version	History
6.0.0	The API call was introduced.

overlay-gateway/site

Configures, modifies, or retrieves overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site	Configure remote extension site
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/{site-name}/bfd	Create BFD session for the tunnels to the remote site
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/{site-name}/extend	Configure Layer 2 domains to be extended towards this site
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/{site-name}/ip	Configure IP address for the site
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/{site-name}/mac-learning	Enable MAC address learning

Parameters

Name	Description
<i>name</i>	Specifies the site name
<i>address</i>	Specifies tunnel destination IP address
<i>add</i>	Specifies the VLAN IDs to add
<i>protocol</i>	Specifies control plane MAC learning protocol. Supported protocol is BGP. Configuring BGP enables BGP-EVPN-based MAC learning
<i>bfd</i>	Enables BFD session
<i>min-tx</i>	Specifies BFD desired minimum transmit interval in milliseconds. The value can range from 100 through 30000. The default value is 100
<i>min-rx</i>	Specifies BFD desired minimum receive interval in milliseconds. The value can range from 300 through 30000. The default value is 300
<i>multiplier</i>	Specifies BFD detection time multiplier. The value can range from 3 through 50. The default value is 3
<i>shutdown</i>	Disables tunnels to the remote site

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/overlay-gateway/og1/site
```

Request body

None

Response body

```

<site y:self="/rest/config/running/overlay-gateway/og1/site/site1">
  <name>site1</name>
  <ip y:self="/rest/config/running/overlay-gateway/og1/site/site1/ip/1.1.1.1">
    <address>1.1.1.1</address>
  </ip>
  <extend y:self="/rest/config/running/overlay-gateway/og1/site/site1/extend">
    <vlan
y:self="/rest/config/running/overlay-gateway/og1/site/site1/extend/vlan">
      <add>1</add>
    </vlan>
  </extend>
  <mac-learning xmlns="urn:brocade.com:mgmt:brocade-tunnels"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/overlay-gateway/overlaygateway1/site/site1/mac-learning">
    <protocol>bgp</protocol>
  </mac-learning>
  <bfd>true</bfd>
  <bfd y:self="/rest/config/running/overlay-gateway/og1/site/site1/bfd">
    <interval
y:self="/rest/config/running/overlay-gateway/og1/site/site1/bfd/interval">
      <min-tx>2000</min-tx>
      <min-rx>3000</min-rx>
      <multiplier>26</multiplier>
    </interval>
  </bfd>
  <shutdown>true</shutdown>
</site>

```

The following is an example of the PUT operation to add overlay gateway BFD configurations.

URI

```
http://host:80/rest/config/running/overlay-gateway/og1/site/s1/bfd/interval
```

Request body

```

<interval>
  <min-tx>1000</min-tx>
  <min-rx>3000</min-rx>
  <multiplier>24</multiplier>
</interval>

```

Response body

None

The following is an example of the DELETE operation to remove the overlay gateway BFD configurations.

URI

```
http://host:80/rest/config/running/overlay-gateway/og1/site/s1/bfd/interval
```

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Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/{site-name}/bfd.

ovsdb-server

Configures, modifies, or retrieves an Open vSwitch Database SSL server for OpenStack deployments.

Resource URIs

URI	Description
<base_URI>/config/running/ovsdb-server	Configures an Open vSwitch Database SSL server for OpenStack deployments

Parameters

Name	Description
<i>name</i>	Specifies the name of an OVSDb SSL server
<i>activate</i>	Activates an Open vSwitch Database SSL server for OpenStack deployments
<i>port</i>	Specifies the port of an Open vSwitch Database SSL server to be used for OpenStack deployments

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/ovsdb-server
```

Request body

None

Response body

```
<ovsdb-server xmlns="urn:brocade.com:mgmt:brocade-tunnels"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/ovsdb-server/ovsdb1">
  <name>ovsdb1</name>
  <activate>true</activate>
  <port>8000</port>
</ovsdb-server>
```

The following is an example of the DELETE operation to remove the OVSDb server configurations.

URI

```
http://host:80/rest/config/running/ovsdb-server
```

Request body

None

4 Configuration APIs

Response body

None

History

Release version	History
7.0.0	This API call was introduced.

password-attributes

Configures, modifies, or retrieves user password attributes.

Resource URIs

URI	Description
<base_URI>/config/running/password-attributes	System-wide user password attributes
<base_URI>/config/running/password-attributes/character-restriction	Restriction on various types of characters. Refer to password-attributes/character-restriction for information

Parameters

Name	Description
<i>max-lockout-duration</i>	Specifies the maximum number of minutes after which the user account is unlocked. The value can range from 0 through 99999. The default value is 0
<i>admin-lockout</i>	Enables lockout for admin role
<i>min-length</i>	Specifies the minimum length of the password. The value can range from 8 through 32 characters. The default length of the password is 8 characters
<i>max-retry</i>	Specifies the maximum number of login retries before which the user account is locked. The value can range from 0 to 16. The default number of login retries is 0
<i>character-restriction</i>	Configures restriction on various types of characters

Usage guidelines

GET, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/password-attributes
```

Request body

None

Response body

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/password-attributes">
  <max-lockout-duration>12</max-lockout-duration>
  <min-length>9</min-length>
  <max-retry>3</max-retry>
  <character-restriction
y:self="/rest/config/running/password-attributes/character-restriction"/>
  <admin-lockout>true</admin-lockout>
</password-attributes>
```

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The following is an example of the PUT operation to configure the password attributes.

URI

`http://host:80/rest/config/running/password-attributes`

Request body

```
<password-attributes>
  <max-lockout-duration>10</max-lockout-duration>
  <min-length>11</min-length>
  <max-retry>5</max-retry>
</password-attributes>
```

Response body

None

The following is an example of the DELETE operation to remove the maximum retry value.

URI

`http://host:80/rest/config/running/password-attributes/max-retry`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>max-lockout-duration</i> .

password-attributes/character-restriction

Configures, modifies, or retrieves character restriction configurations.

Resource URIs

URI	Description
<base_URI>/config/running/password-attributes/character-restriction	Restriction on various types of characters

Parameters

Name	Description
<i>lower</i>	Specifies the minimum number of lower-case alphabets. The value can range from 0 through 32. The default value is 8 number of lower-case alphabets
<i>numeric</i>	Specifies the minimum number of numeric characters. The value can range from 0 through 32. The default value is 0
<i>special-char</i>	Specifies the minimum number of special characters. The value can range from 0 through 32 characters. The default value is 0 characters
<i>upper</i>	Sets the number of uppercase alphabetic characters that must occur in the password

Usage guidelines

GET, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/password-attributes/character-restriction
```

Request body

None

Response body

```
<character-restriction
y:self="/rest/config/running/password-attributes/character-restriction">
  <upper>1</upper>
  <lower>1</lower>
  <numeric>1</numeric>
  <special-char>1</special-char>
</character-restriction>
```

The following is an example of the PATCH operation to modify the character restriction parameters.

URI

```
http://host:80/rest/config/running/password-attributes
```

4 Configuration APIs

Request body

```
<password-attributes>  
  <character-restriction>  
    <upper>2</upper>  
    <lower>2</lower>  
    <numeric>2</numeric>  
    <special-char>1</special-char>  
  </character-restriction>  
</password-attributes>
```

Response body

None

The following is an example of the DELETE operation to change to the default setting.

URI

```
http://host:80/rest/config/running/password-attributes
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

policy-map

Configures, modifies, or retrieves policy map configurations.

Resource URIs

URI	Description
<base_URI>/config/running/policy-map	Policy map configurations
<base_URI>/config/running/policy-map/class	Policy map class configuration

Parameters

Name	Description
<i>po-name</i>	Specifies policy map name
<i>cl-name</i>	Specifies class map name
<i>cir</i>	Specifies committed information rate. The value can range from 40000 through 100000000000 cir bits per second
<i>conform-set-dscp</i>	Configures DSCP priority for conforming traffic
<i>conform-set-tc</i>	Specifies traffic class value for conformant traffic. The value can range from 0 through 7
<i>exceed-set-dscp</i>	Specifies DSCP priority for exceeded traffic. The value can range from 0 through 63
<i>exceed-set-tc</i>	Specifies traffic class value for exceeded traffic. The value can range from 0 through 7

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the policy map configuration details.

URI

```
http://host:80/rest/config/running/policy-map
```

Request body

None

Response body

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer"
xmlns:y="http://brocade.com/ns/rest "
y:self="/rest/config/running/policy-map/p2">
  <po-name>p2</po-name>
  <class y:self="/rest/config/running/policy-map/p2/class/ip1">
    <cl-name>ip1</cl-name>
    <police y:self="/rest/config/running/policy-map/p2/class/ip1/police">
      <cir>608000000</cir>
      <cbs>1300</cbs>
    </police>
  </class>
</policy-map>
```

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```
<conform-set-dscp>56</conform-set-dscp>
<conform-set-tc>2</conform-set-tc>
<exceed-set-dscp>40</exceed-set-dscp>
<exceed-set-tc>1</exceed-set-tc>
</police>
<set y:self="/rest/config/running/policy-map/p2/class/ip1/set"/>
<span y:self="/rest/config/running/policy-map/p2/class/ip1/span"/>
<map y:self="/rest/config/running/policy-map/p2/class/ip1/map"/>
</class>
</policy-map>
```

The following is an example of the DELETE operation to remove the policy map named po.

URI

`http://host:80/rest/config/running/policy-map/po`

Request body

None

Response body

None

History

Release version	History
5.0.1	The API call was introduced.

port-channel-redundancy-group

Configures, modifies, or retrieves list of port-channel redundancy groups.

Resource URIs

URI	Description
<base_URI>/config/running/port-channel-redundancy-group	The list of port-channel redundancy groups
<base_URI>/config/running/port-channel-redundancy-group/port-channel	The list of port-channels. Refer to port-channel-redundancy-group/port-channel for information

Parameters

Name	Description
<i>group-id</i>	Specifies port channel redundancy group number. The number can range from 1 through 255
<i>activate</i>	Activates the port-channel redundancy group
<i>port-channel</i>	Configures the port channel parameters

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/port-channel-redundancy-group
```

Request body

None

Response body

```
<port-channel-redundancy-group xmlns="urn:brocade.com:mgmt:brocade-lag"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/port-channel-redundancy-group/2">
  <group-id>2</group-id>
  <activate>true</activate>
  <port-channel
y:self="/rest/config/running/port-channel-redundancy-group/2/port-channel/2"/>
</port-channel-redundancy-group>
```

4 Configuration APIs

History

Release version	History
6.0.0	The API call was introduced.

port-channel-redundancy-group/port-channel

Configures, modifies, or retrieves list of port-channel redundancy groups.

Resource URIs

URI	Description
<base_URI>/config/running/port-channel-redundancy-group/port-channel	The list of port-channels

Parameters

Name	Description
<i>name</i>	Specifies port channel interface number. The value can range from 1 through 6144
<i>active</i>	Selects port channel as active in port channel redundancy group

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/port-channel-redundancy-group/port-channel
```

Request body

None

Response body

```
<port-channel
y:self="/rest/config/running/port-channel-redundancy-group/2/port-channel/2">
  <name>2</name>
  <active>true</active>
</port-channel>
```

The following is an example of the POST operation to add a port channel.

URI

```
http://host:80/rest/config/running/port-channel-redundancy-group/2
```

Request body

```
<port-channel>
  <name>3</name>
</port-channel>
```

Response body

None

4 Configuration APIs

The following is an example of the DELETE operation to delete the port channel configuration.

URI

`http://host:80/rest/config/running/port-channel-redundancy-group/2/port-channel`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

port-profile

Configures, modifies, or retrieves automatic port-profile.

Resource URIs

URI	Description
<base_URI>/config/running/port-profile	Automatic port-profile

Parameters

Name	Description
<i>name</i>	Specifies the port profile name
<i>non-profiled-macs</i>	Specifies whether non-profiled MAC addresses on the profiled port are dropped
<i>switchport</i>	Sets the switching characteristics of the Layer 2 interface
<i>vlan-mode</i>	Sets mode of the Layer 2 interface
<i>native-vlan</i>	Sets the native VLAN to classify untagged traffic
<i>foe-map-name</i>	Specifies the FCoE Fabric map name
<i>restrict-flooding</i>	Enables restrict flooding
<i>activate</i>	Specifies if this port-profile needs to be activated or not
<i>mac-address</i>	Configures MAC address for a port-profile
<i>cee</i>	Specifies the CEE map name
<i>cos</i>	Specifies default CoS value. The value can range from 0 through 7
<i>trust-cos</i>	Specifies that trust L2 CoS field in incoming packets for deriving internal Traffic Class
<i>cos-mutation</i>	Configures CoS-to-CoS mutation value
<i>pfc-cos</i>	Specifies the CoS value
<i>pfc-tx</i>	Specifies pause generation. Supported configurations are on and off . Configuring on enables pause generation. Configuring off disables pause generation
<i>pfc-rx</i>	Enables or disables PFC pause reception
<i>tx</i>	Enables or disables pause generation
<i>rx</i>	Enables or disables pause reception
<i>access-group-name</i>	Configures the access list name
<i>direction</i>	Sets the direction to in (ingress direction)
<i>vlan-type</i>	Specifies the VLAN type

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/port-profile`

Request body

None

Response body

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/port-profile/default">
  <name>default</name>
  <activate></activate>
  <allow y:self="/rest/config/running/port-profile/default/allow">
    <non-profiled-macs>true</non-profiled-macs>
  </allow>
  <vlan-profile y:self="/rest/config/running/port-profile/default/vlan-profile">
    <switchport>true</switchport>
    <switchport
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport">
      <mode
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/mode">
        <vlan-mode>trunk</vlan-mode>
      </mode>
      <access
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/access
">
        <vlan
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/access
/vlan"/>
          </access>
          <trunk
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/trunk"
>
            <allowed
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/trunk/
allowed">
              <vlan
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/trunk/
allowed/vlan"/>
                </allowed>
                <native-vlan>1</native-vlan>
              </trunk>
            </switchport>
          </vlan-profile>
          <fcoe-profile y:self="/rest/config/running/port-profile/default/fcoe-profile">
            <fcoeport
y:self="/rest/config/running/port-profile/default/fcoe-profile/fcoeport">
              <fcoe-map-name>default</fcoe-map-name>
            </fcoeport>
          </fcoe-profile>
          <static y:self="/rest/config/running/port-profile/default/qos-profile/static">
            <mac-address>0050.56bf:0001</mac-address>
          </static>
          <qos-profile y:self="/rest/config/running/port-profile/default/qos-profile">
            <cee>map1</cee>
            <qos y:self="/rest/config/running/port-profile/default/qos-profile"/>qos>
```

```

        <cos>1</cos>
        <trust
y:self="/rest/config/running/port-profile/default/qos-profile/qos/trust">
        <trust-cos>>true</trust-cos>
        </trust>
        <cos-mutation>map1</cos-mutation>
        <cos-traffic-class>map2</cos-traffic-class>
        <flowcontrol
y:self="/rest/config/running/port-profile/default/qos-profile/qos/flowcontrol">
        <pfc>
        <pfc-cos>1</pfc-cos>
        <pfc-tx>on</pfc-tx>
        <pfc-rx>on</pfc-rx>
        </pfc>
        <flowcontrolglobal>
        <tx>on</tx>
        <rx>on</rx>
        </flowcontrolglobal>
        </flowcontrol>
        <qos>
        </qos-profile>
        <security-profile
y:self="/rest/config/running/port-profile/default/security-profile">
        <mac
y:self="/rest/config/running/port-profile/default/security-profile/mac">
        <access-group
y:self="/rest/config/running/port-profile/default/security-profile/mac/access-gr
oup">
        <access-group-name>acl1</access-group-name>
        <direction>in</direction>
        </access-group>
        </mac>
        </security-profile>
        <restrict-flooding>true</restrict-flooding>
</port-profile>

```

The following is an example of the DELETE operation to remove a port-profile name.

URI

`http://host:80/rest/config/running/port-profile/PortProfile1`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

port-profile-domain

Configures, modifies, or retrieves port-profile domain configurations.

Resource URIs

URI	Description
<base_URI>/config/running/port-profile-domain	Define a port-profile domain
<base_URI>/config/running/port-profile-domain/{port-profile-domain name}/port-profile	Port-profile name

Parameters

Name	Description
<i>port-profile-domain-name</i>	Specifies the name of the port profile domain
<i>profile-name</i>	Specifies the port profile name

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/port-profile-domain
```

Request body

None

Response body

```
<port-profile-domain xmlns="urn:brocade.com:mgmt:brocade-port-profile"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/port-profile-domain/default">
  <port-profile-domain-name>default</port-profile-domain-name>
  <port-profile
y:self="/rest/config/running/port-profile-domain/default/port-profile/UpgradedVlanProfile">
    <profile-name>UpgradedVlanProfile</profile-name>
  </port-profile>
</port-profile-domain>
```

The following is an example of the POST operation to create a port-profile-domain.

URI

```
http://host:80/rest/config/running/
```

Request body

```
<port-profile-domain>
```

```
<port-profile-domain-name>g3</port-profile-domain-name>  
</port-profile-domain>
```

Response body

None

The following is an example of the DELETE operation to remove a port-profile name from the port-profile domain.

URI

```
http://host:80/rest/config/running/port-profile-domain/default/port-profile/Upgr  
adedProfile
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

preprovision

Configures, modifies, or retrieves preprovision profiles.

Resource URIs

URI	Description
<base_URI>/config/running/preprovision	Preprovision profiles
<base_URI>/config/running/preprovision/rbridge-id	RBridge-id for preprovision configuration

Parameters

Name	Description
<i>rbridge-id</i>	Specifies unique identifier for the switch. The value can range from 1 to 239
<i>wwn</i>	Specifies the World Wide Name (WWN). A WWN is a 64 bit address to uniquely identify each entity within a Fibre Channel fabric

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/preprovision
```

Request body

None

Response body

```
<preprovision xmlns="urn:brocade.com:mgmt:brocade-preprovision"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/preprovision">
  <rbridge-id y:self="/rest/config/running/preprovision/rbridge-id/3">
    <rbridge-id>3</rbridge-id>
    <wwn>11:11:11:11:11:11:11:15</wwn>
  </rbridge-id>
</preprovision>
```

The following is an example of the POST operation to configure the WWN.

URI

```
http://host:80/rest/config/running/preprovision
```

Request body

```
<rbridge-id>
  <rbridge-id>4</rbridge-id>
  <wwn>11:11:11:11:11:11:11:18</wwn>
</rbridge-id>
```


Response body

None

The following is an example of the DELETE operation to remove the WWN from preprovision configuration.

URI

`http://host:80/rest/config/running/preprovision/rbridge-id/3/wwn`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.

protocol

Configures, modifies, or retrieves protocol configuration.

Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/cdp	Cisco Discovery Protocol (CDP). Refer to protocol/cdp for information
<base_URI>/config/running/protocol/edge-loop-detection	ELD parameters. Refer to protocol/edge-loop-detection for information
<base_URI>/config/running/protocol/lldp	Link Layer Discovery Protocol (LLDP). Refer to protocol/lldp for information
<base_URI>/config/running/protocol/spanning-tree	Spanning tree commands. Refer to protocol/spanning-tree for information
<base_URI>/config/running/protocol/udld	Unidirectional Link Detection protocol. Refer to protocol/udld for information

Parameters

Name	Description
<i>cdp</i>	Configures Cisco Discovery Protocol
<i>edge-loop-detection</i>	Configures ELD parameters
<i>lldp</i>	Configures Link Layer Discovery Protocol
<i>spanning-tree</i>	Configures Spanning tree
<i>udld</i>	Configures Unidirectional Direction Protocol

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/protocol
```

Request body

None

Response body

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/protocol">
```

```
<udld xmlns="urn:brocade.com:mgmt:brocade-udld"
y:self="/rest/config/running/protocol/udld"/>
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp"
y:self="/rest/config/running/protocol/spanning-tree"/>
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp"
y:self="/rest/config/running/protocol/lldp"/>
      <cdp xmlns="urn:brocade.com:mgmt:brocade-cdp"
y:self="/rest/config/running/protocol/cdp"/>
        <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld"
y:self="/rest/config/running/protocol/edge-loop-detection"/>
      </protocol>
```

History

Release version	History
5.0.0	The API call was introduced.

protocol/cdp

Configures, modifies, or retrieves Cisco Discovery Protocol (CDP) configuration.

Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/cdp	Cisco Discovery Protocol (CDP)

Parameters

Name	Description
cdp	Enables Cisco Discovery Protocol

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/protocol/cdp
```

Request body

None

Response body

```
<cdp xmlns="urn:brocade.com:mgmt:brocade-cdp"
y:self="/rest/config/running/protocol/cdp"/>
```

History

Release version	History
5.0.0	The API call was introduced.

protocol/edge-loop-detection

Configures, modifies, or retrieves edge loop detection configuration.

Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/edge-loop-detection	ELD parameters

Parameters

Name	Description
<i>shutdown-time</i>	Specifies shutdown time limit. The value can range from 0 through 1440 minutes. The default value is 0
<i>hello-interval</i>	Specifies hello interval limit. The interval can range from 100 through 5000 milliseconds. The default hello interval is set to 1000 milliseconds
<i>pdu-rx-limit</i>	Specifies bpdu-rx-limit. The value can range from 1 through 5. The default value is 1
<i>mac-refresh-time</i>	Specifies refresh time for MAC. The value can range from 60 through 300 seconds
<i>mac-refresh-type</i>	Specifies the refresh type. Supported configurations are all and port . Configuring all cleans dynamic MAC(s) for entire cluster. Configuring port cleans dynamic MAC(s) for partner port at the other end of the loop

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/protocol/edge-loop-detection
```

Request body

None

Response body

```
<edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld"
y:self="/rest/config/running/protocol/edge-loop-detection">
  <pdu-rx-limit>2</pdu-rx-limit>
  <hello-interval>2200</hello-interval>
  <shutdown-time>20</shutdown-time>
  <mac-refresh
y:self="/rest/config/running/protocol/edge-loop-detection/mac-refresh">
    <mac-refresh-time>112</mac-refresh-time>
    <mac-refresh-type>all</mac-refresh-type>
```

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```
</mac-refresh>  
</edge-loop-detection>
```

The following is an example of the DELETE operation to remove the shutdown time from the edge-loop-detection configuration.

URI

`http://host:80/rest/config/running/protocol/edge-loop-detection/shutdown-time/20`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

protocol/lldp

Configures, modifies, or retrieves Link Layer Discovery Protocol (LLDP) configuration.

Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/lldp	Link Layer Discovery Protocol (LLDP)

Parameters

Name	Description
<i>mode</i>	Specifies the LLDP mode. Supported modes are rx and tx . Configuring rx enables LLDP receive only mode. Configuring tx enables LLDP transmit only mode
<i>description</i>	Specifies user description for LLDP
<i>advertise</i>	Sets the Advertise TLV configuration as dcbx-fcoe-app-tlv , dcbx-fcoe-logical-link-tlv , dcbx-iscsi-app-tlv , dcbx-tlv , dot1-tlv , dot3-tlv or optional-tlv
<i>system-name</i>	Specifies system name
<i>system-description</i>	Specifies system description
<i>iscsi-priority</i>	Specifies the iSCSI Ethernet priority value. The value can range from 0 through 7
<i>profile-name</i>	Specifies the profile name
<i>pdu-rx-limit</i>	Sets pdu-rx-limit
<i>dot1-tlv</i>	Enables IEEE 802.1 organizationally specific TLV
<i>dot3-tlv</i>	Enables IEEE 802.3 organizationally specific TLV
<i>optional-tlv</i>	Advertises the optional Type, Length, and Values (TLV) values
<i>description</i>	Configures the user description
<i>rx</i>	Specifies to enable only the receive mode
<i>tx</i>	Specifies to enable only the transmit mode
<i>profile</i>	Configures the LLDP profile name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/protocol/lldp
```

Request body

None

Response body

```
<lldp xmlns="urn:brocade.com:mgmt:brocade-lldp"
y:self="/rest/config/running/protocol/lldp">
  <description>dcbxfcoe1</description>
  <hello>5</hello>
  <mode>rx</mode>
  <multiplier>2</multiplier>
  <advertise y:self="/rest/config/running/protocol/lldp/advertise">
    <dcbx-fcoe-app-tlv>true</dcbx-fcoe-app-tlv>
    <dcbx-fcoe-logical-link-tlv>true</dcbx-fcoe-logical-link-tlv>
    <dcbx-tlv>true</dcbx-tlv>
    <optional-tlv
y:self="/rest/config/running/protocol/lldp/advertise/optional-tlv">
      <system-name>true</system-name>
    </optional-tlv>
  </advertise>
  <system-name>client3</system-name>
  <system-description>client2</system-description>
  <iscsi-priority>2</iscsi-priority>
  <disable>true</disable>
  <profile y:self="/rest/config/running/protocol/lldp/profile/profile1">
    <profile-name>profile1</profile-name>
    <description>dot1user</description>
    <advertise
y:self="/rest/config/running/protocol/lldp/profile/profile1/advertise">
      <dot1-tlv>true</dot1-tlv>
    </advertise>
  </profile>
  <profile y:self="/rest/config/running/protocol/lldp/profile/profile2">
    <profile-name>profile2</profile-name>
    <advertise
y:self="/rest/config/running/protocol/lldp/profile/profile2/advertise">
      <optional-tlv
y:self="/rest/config/running/protocol/lldp/profile/profile2/advertise/optional-tlv"/>
    </advertise>
  </profile>
</lldp>
```

History

Release version	History
5.0.0	The API call was introduced.

protocol/spanning-tree

Configures, modifies, or retrieves spanning tree configuration.

Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/spanning-tree	Spanning tree commands

Parameters

Name	Description
<i>spanning-tree</i>	Displays the protocol configuration information for MSTP
<i>stp</i>	Specifies Rapid Per-VLAN Spanning Tree Protocol Plus
<i>description</i>	Specifies spanning tree description
<i>bridge-priority</i>	Specifies the bridge priority. The value can range from 0 through 61440 and bridge priority must be set in increments of 4096
<i>error-disable-timeout</i>	Enables timeout for the port to be enabled back
<i>interval</i>	Specifies time interval after which port will be enabled. The value can range from 10 through 1000000 seconds
<i>forward-delay</i>	Specifies forward delay time. The delay tiem can range from 4 through 30 seconds. The default delay time is set to 15 seconds
<i>max-age</i>	Specifies the maximum time to listen for root bridge in seconds. The value can range from 6 through 40 seconds. The default time is set to 20 seconds
<i>max-hops</i>	Specifies the maximum hops the BPDU will be valid for. The value can range from 1 through 40
<i>port-channel</i>	Displays the status of port-channel for spanning-tree
<i>path-cost</i>	Sets the path cost behavior. Supported configurations are custom and standard . Configuring custom will change pathcost according to bandwidth. Configuring standard will not change pathcost according to bandwidth
<i>shutdown</i>	Turns off the Spanning Tree Protocol
<i>hello-time</i>	Shuts down the spanning tree protocol

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/protocol/spanning-tree
```

Request body

None

Response body

```
<spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp"
y:self="/rest/config/running/protocol/spanning-tree">
  <stp y:self="/rest/config/running/protocol/spanning-tree/stp">
    <description>stp2</description>
    <bridge-priority>12288</bridge-priority>
    <error-disable-timeout
y:self="/rest/config/running/protocol/spanning-tree/stp/error-disable-timeout">
      <interval>150</interval>
    </error-disable-timeout>
    <forward-delay>20</forward-delay>
    <max-age>22</max-age>
    <port-channel
y:self="/rest/config/running/protocol/spanning-tree/stp/port-channel">
      <path-cost>custom</path-cost>
    </port-channel>
    <shutdown>true</shutdown>
    <hello-time>3</hello-time>
  </stp>
</spanning-tree>
```

History

Release version	History
5.0.0	The API call was introduced.

protocol/udld

Configures, modifies, or retrieves Unidirectional Link Detection protocol configuration.

Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/udld	Unidirectional Link Detection protocol

Parameters

Name	Description
<i>udld</i>	Enables unidirectional link detection (UDLD) protocol configuration mode
<i>hello</i>	Specifies the hello transmit interval. The value can range from 1 through 60 (in counts of 100 milliseconds). The default value is 5 (500 milliseconds)
<i>multiplier</i>	Specifies a multiplier value to use. The value can range from 3 through 10. The default value is 5
<i>shutdown</i>	Disables UDLD protocol on all ports without affecting configuration

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/protocol/udld
```

Request body

None

Response body

```
<udld xmlns="urn:brocade.com:mgmt:brocade-udld"
y:self="/rest/config/running/protocol/udld">
  <hello>25</hello>
  <multiplier>6</multiplier>
  <shutdown>true</shutdown>
</udld>
```

The following is an example of the POST operation to configure the UDLD.

URI

```
http://host:80/rest/config/running/protocol
```

Request body

```
<udld>
```

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```
<hello>25</hello>  
</udld>
```

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

qos

Configures, modifies, or retrieves Quality of Service (QoS).

Resource URIs

URI	Description
<base_URI>/config/running/qos	Quality of Service (QoS)

Parameters

Name	Description
<i>dscp-mutation-map-name</i>	Specifies Dscp-to-Dscp mutation map name
<i>dscp-in-values</i>	Specifies incoming DSCP value. The value can range from 0 though 63
<i>to</i>	Specifies DSCP mutation out value. The value can range from 0 through 7
<i>dscp-traffic-class-map-name</i>	Specifies DSCP traffic class map name
<i>dscp-in-values</i>	Specifies incoming DSCP value. The value can range from 0 through 63
<i>dscp-cos-map-name</i>	Specifies Dscp-to-CoS mutation map name
<i>dscp-in-values</i>	Specifies incoming DSCP value. The value can range from 0 through 63
<i>name</i>	Configures the name of the map
<i>cos</i>	Configures CoS mutated CoS value
<i>profile-id</i>	Specifies the profile ID. The value can range from 0 through 383
<i>min-threshold</i>	Specifies minimum threshold in percentage. The value can range from 0 through 100 percent
<i>max-threshold</i>	Specifies maximum threshold in percentage. The value can range from 0 through 100 percent
<i>drop-probability</i>	Specifies drop probability in percentage. The value can range from 0 through 100 percent
<i>priority-number</i>	Sets priority as 0 (No strict priority queue), 1 (Traffic Class 7 strict priority queue), 2 (Traffic Class 6 through 7 strict priority queues), 3 (Traffic Class 5 through 7 strict priority queues), 4 (Traffic Class 4 through 7 strict priority queues), 5 (Traffic Class 3 through 7 strict priority queues), 6 (Traffic Class 2 through 7 strict priority queues) or 7 (Traffic Class 1 through 7 strict priority queues)
<i>traffic-class</i>	Configures the traffic class tail drop threshold (packets)
<i>limit</i>	Configures the rate limit (packets per second)
<i>burst</i>	Configures the burst limit (packets)
<i>direction</i>	Specifies input policy
<i>policy-map-name</i>	Specifies QoS policy map name
<i>add</i>	Adds R Bridges on which the QoS policy must be activated
<i>remove</i>	Specifies the R Bridge-IDs to remove

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/qos`

Request body

None

Response body

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/qos">
  <map y:self="/rest/config/running/qos/map">
    <dscp-mutation y:self="/rest/config/running/qos/map/dscp-mutation/map4">
      <dscp-mutation-map-name>map4</dscp-mutation-map-name>
      <mark y:self="/rest/config/running/qos/map/dscp-mutation/map4/mark/4">
        <dscp-in-values>4</dscp-in-values>
        <to>3</to>
      </mark>
    </dscp-mutation>
    <dscp-traffic-class
y:self="/rest/config/running/qos/map/dscp-traffic-class/map5">
      <dscp-traffic-class-map-name>map5</dscp-traffic-class-map-name>
      <mark
y:self="/rest/config/running/qos/map/dscp-traffic-class/map5/mark/6">
        <dscp-in-values>6</dscp-in-values>
        <to>5</to>
      </mark>
    </dscp-traffic-class>
    <dscp-cos y:self="/rest/config/running/qos/map/dscp-cos/map3">
      <dscp-cos-map-name>map3</dscp-cos-map-name>
      <mark y:self="/rest/config/running/qos/map/dscp-cos/map3/mark/2">
        <dscp-in-values>2</dscp-in-values>
        <to>1</to>
      </mark>
    </dscp-cos>
    <cos-mutation y:self="/rest/config/running/qos/map/cos-mutation/map1">
      <name>map1</name>
      <cos0>2</cos0>
      <cos1>1</cos1>
      <cos2>2</cos2>
      <cos3>1</cos3>
      <cos4>1</cos4>
      <cos5>1</cos5>
      <cos6>1</cos6>
      <cos7>2</cos7>
    </cos-mutation>
  </map>
  <red-profile y:self="/rest/config/running/qos/red-profile/23">
    <profile-id>23</profile-id>
    <min-threshold>20</min-threshold>
    <max-threshold>50</max-threshold>
    <drop-probability>30</drop-probability>
  </red-profile>
```

```

<service-policy y:self="/rest/config/running/qos/service-policy">
  <direction>in</direction>
  <policy-map-name>map1</policy-map-name>
  <attach y:self="/rest/config/running/qos/service-policy/attach">
    <rbridge-id
y:self="/rest/config/running/qos/service-policy/attach/rbridge-id">
      <add>121</add>
      <remove>200</remove>
    </rbridge-id>
  </attach>
</service-policy>
</qos>

```

The following is an example of the POST operation to configure a red-profile.

URI

`http://host:80/rest/config/running/qos/red-profile`

Request body

```

<profile-id>23</profile-id>
<min-threshold>20</min-threshold>
<max-threshold>50</max-threshold>
<drop-probability>30</drop-probability>

```

Response body

None

The following is an example of the DELETE operation to remove a red-profile configuration.

URI

`http://host:80/rest/config/running/qos/red-profile/23`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

radius-server

Configures, modifies, or retrieves RADIUS server configurations.

Resource URIs

URI	Description
<base_URI>/config/running/radius-server	RADIUS server

Parameters

Name	Description
<i>hostname</i>	Specifies the domain name or the IP address of this radius server
<i>auth-port</i>	Specifies UDP authentication port. The value can range from 1 through 65535. The default value is 1812
<i>use-vrf</i>	Specifies the VRF name
<i>encryption-level</i>	Specifies the encryption level. Supported encryption levels are 0 and 7 . Configuring 0 stores the key in clear text format. Configuring 7 stores the key in clear text format
<i>key</i>	Specifies the secret shared with this server. The secret entered overrides the default secret
<i>protocol</i>	Specifies the authentication protocol to be used. Supported protocols are CHAP , PAP , and PEAP-MSCHAP . The default is CHAP .
<i>retries</i>	Specifies number of retries for this server connection. The value can range from 0 through 100. The default number of retries is set to 5
<i>timeout</i>	Specifies the wait time for this server to respond. The value can range from 1 through 60 seconds. The default value is 5 seconds

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/radius-server
```

Request body

None

Response body

```
<radius-server xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/radius-server">
  <host y:self="/rest/config/running/radius-server/host/inetaddress">
    <hostname>inetaddress</hostname>
```



```

    <auth-port>1815</auth-port>
    <protocol>pap</protocol>
    <key>shardsecret</key>
    <encryption-level>0</encryption-level>
    <retries>10</retries>
    <use-vrf>mgmt-vrf</use-vrf>
    <timeout>10</timeout>
  </host>
</radius-server>

```

The following is an example of the POST operation to add the number of retries to the RADIUS server configuration.

URI

`http://host:80/rest/config/running/radius-server`

Request body

```

<host>
  <hostname>inetaddress</hostname>
  <retries>5</retries>
</host>

```

Response body

None

The following is an example of the DELETE operation to remove the auth-port configuration.

URI

`http://host:80/rest/config/running/radius-server/host/inetaddress/auth-port/1815`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
7.0.0	The API call was modified to include the parameter <i>use-vrf</i> .

rbridge-id

Configures, modifies, or retrieves RBridge ID for node-specific configuration.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id	RBridge ID for node-specific configuration

Parameters

Name	Description
<i>rbridge-id</i>	Specifies the RBridge ID
<i>ag</i>	Configures all AG-mode related commands. Refer to rbridge-id/{rbridge-number}/ag for information
<i>arp</i>	Configures Address Resolution Protocol (ARP) parameters. Refer to rbridge-id/{rbridge-number}/arp for information
<i>chassis</i>	Configures Chassis Virtual address. Refer to rbridge-id/{rbridge-number}/chassis for information
<i>clock</i>	Configures system time zone. Refer to rbridge-id/{rbridge-number}/clock for information
<i>fabric</i>	Configures fabric-related parameters. Refer to rbridge-id/{rbridge-number}/fabric for information
<i>fcoe</i>	Configures FCoE configuration commands. Refer to rbridge-id/{rbridge-number}/fcoe for information
<i>fcsp</i>	Configures FCSP configuration commands. Refer to rbridge-id/{rbridge-number}/fcsp for information
<i>filter-change-update-delay</i>	Change filter change update delay timer. Refer to rbridge-id/{rbridge-number}/filter-change-update-delay for information
<i>hardware-profile</i>	Configures Hardware Profile on a Switch. Refer to rbridge-id/{rbridge-number}/hardware-profile for information
<i>interface</i>	Configures Interface parameters. Refer to rbridge-id/{rbridge-number}/interface for information
<i>ip</i>	Configures Internet Protocol (IP) parameters. Refer to rbridge-id/{rbridge-number}/ip for information
<i>ipv6</i>	Configure Internet Protocol version 6 (IPv6). Refer to rbridge-id/{rbridge-number}/ipv6 for information
<i>linecard</i>	Configures linecard for the specified slot. Refer to rbridge-id/{rbridge-number}/linecard for information
<i>logical-chassis</i>	Configures logical chassis commands. Refer to rbridge-id/{rbridge-number}/logical-chassis for information
<i>protocol</i>	Configures protocol parameters. Refer to rbridge-id/{rbridge-number}/protocol for information
<i>qos</i>	Configures rbridge-level qos config parameters. Refer to rbridge-id/{rbridge-number}/qos for information

Name	Description
<i>route-map</i>	Configures a route-map instance. Refer to rbridge-id/{rbridge-number}/route-map for information
<i>router</i>	Configures router parameters. Refer to rbridge-id/{rbridge-number}/router for information
<i>secpolicy</i>	Configures security policy-related configuration. Refer to rbridge-id/{rbridge-number}/secpolicy for information
<i>snmp-server</i>	Configures SNMP server parameters. Refer to rbridge-id/{rbridge-number}/snmp-server for information
<i>ssh</i>	Configures SSH Server parameters. Refer to rbridge-id/{rbridge-number}/ssh for information
<i>switch-attributes</i>	Configures switch attributes configurations. Refer to rbridge-id/{rbridge-number}/switch-attributes for information
<i>system-monitor</i>	Configures FRU threshold and alert settings. Refer to rbridge-id/{rbridge-number}/system-monitor for information
<i>telnet</i>	Configures Telnet Server settings. Refer to rbridge-id/{rbridge-number}/telnet for information
<i>threshold-monitor</i>	Configures Class monitoring threshold and alert settings. Refer to rbridge-id/{rbridge-number}/threshold-monitor for information
<i>vrf</i>	Configures VRF parameters. Refer to rbridge-id/{rbridge-number}/vrf for information

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id
```

Request body

None

Response body

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rbridge-id/1">
  <rbridge-id>1</rbridge-id>
  <ip y:self="/rest/config/running/rbridge-id/1/ip"></ip>
  <bfd-session-setup-delay xmlns="urn:brocade.com:mgmt:brocade-bfd"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/bfd-session-setup-delay"></bfd-session
-setup-delay>
  <switch-attributes xmlns="urn:brocade.com:mgmt:brocade-rbridge"
y:self="/rest/config/running/rbridge-id/1/switch-attributes"></switch-attributes
>
  <system-mode
y:self="/rest/config/running/rbridge-id/1/system-mode"></system-mode>
```

```

    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf"
y:self="/rest/config/running/rbridge-id/1/vrf/mgmt-vrf">
    <vrf-name>mgmt-vrf</vrf-name>
  </vrf>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor"
y:self="/rest/config/running/rbridge-id/1/threshold-monitor"></threshold-monitor
>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor"
y:self="/rest/config/running/rbridge-id/1/system-monitor"></system-monitor>
  <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp"
y:self="/rest/config/running/rbridge-id/1/snmp-server"></snmp-server>
  <qos xmlns="urn:brocade.com:mgmt:brocade-qos"
y:self="/rest/config/running/rbridge-id/1/qos"></qos>
  <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow"
y:self="/rest/config/running/rbridge-id/1/openflow"></openflow>
  <maps xmlns="urn:brocade.com:mgmt:brocade-maps"
y:self="/rest/config/running/rbridge-id/1/maps"></maps>
  <protocol xmlns="urn:brocade.com:mgmt:brocade-interface"
y:self="/rest/config/running/rbridge-id/1/protocol"></protocol>
  <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware"
y:self="/rest/config/running/rbridge-id/1/hardware-profile"></hardware-profile>
  <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth"
y:self="/rest/config/running/rbridge-id/1/fcsp"></fcsp></secpolicy>
  <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service"
y:self="/rest/config/running/rbridge-id/1/fabric"></fabric>
  <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler"
y:self="/rest/config/running/rbridge-id/1/event-handler"></event-handler>
  <crypto xmlns="urn:brocade.com:mgmt:brocade-crypto"
y:self="/rest/config/running/rbridge-id/1/crypto"></crypto>
  <clock xmlns="urn:brocade.com:mgmt:brocade-clock"
y:self="/rest/config/running/rbridge-id/1/clock"></clock>
  <chassis xmlns="urn:brocade.com:mgmt:brocade-chassis"
y:self="/rest/config/running/rbridge-id/1/chassis"></chassis>
  <bp-rate-limit xmlns="urn:brocade.com:mgmt:brocade-bprate-limit"
y:self="/rest/config/running/rbridge-id/1/bp-rate-limit"></bp-rate-limit>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp"
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1"></evpn-instance>
  <bfd-session-setup-delay xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/bfd-session-setup-delay"></bfd-session
-setup-delay>
  <host-table xmlns="urn:brocade.com:mgmt:brocade-arp"
y:self="/rest/config/running/rbridge-id/1/host-table"></host-table>
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag"
y:self="/rest/config/running/rbridge-id/1/ag"></ag>
  <root xmlns="urn:brocade.com:mgmt:brocade-aaa"
y:self="/rest/config/running/rbridge-id/1/root">
    <enable>true</enable>
  </root>
  <logical-chassis xmlns="http://brocade.com/ns/brocade-logical-chassis"
y:self="/rest/config/running/rbridge-id/1/logical-chassis"></logical-chassis>
  <default-config xmlns="http://brocade.com/ns/brocade-default-config"
y:self="/rest/config/running/rbridge-id/1/default-config"></default-config>
  <vcs xmlns="http://brocade.com/ns/brocade-auto-shut-edge-port"
y:self="/rest/config/running/rbridge-id/1/vcs"></vcs>
  <telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services"
y:self="/rest/config/running/rbridge-id/1/telnet">
    <server y:self="/rest/config/running/rbridge-id/1/telnet/server"></telnet>
    <ssh y:self="/rest/config/running/rbridge-id/1/ssh"></ssh>
    <http xmlns="urn:brocade.com:mgmt:brocade-http"
y:self="/rest/config/running/rbridge-id/1/http"></http>

```

```

    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/1/route-map/route1%2Cdeny%2C1"></route-m
ap>
    <fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe"
y:self="/rest/config/running/rbridge-id/1/fcoe"></fcoe>
    <router xmlns="urn:brocade.com:mgmt:brocade-rbridge"
y:self="/rest/config/running/rbridge-id/1/router">
        <pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/rbridge-id/1/router/pim"></pim>
        <bgp xmlns="urn:brocade.com:mgmt:brocade-bgp"
y:self="/rest/config/running/rbridge-id/1/router/bgp"></bgp>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
y:self="/rest/config/running/rbridge-id/1/router/ospf/default-vrf"></ospf>
    </router>
    <ipv6 xmlns="urn:brocade.com:mgmt:brocade-rbridge"
y:self="/rest/config/running/rbridge-id/1/ipv6"></ipv6>
        <interface xmlns="urn:brocade.com:mgmt:brocade-interface"
y:self="/rest/config/running/rbridge-id/1/interface">
            <Loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback"
y:self="/rest/config/running/rbridge-id/1/interface/Loopback/1"></Loopback>
            <Ve xmlns="urn:brocade.com:mgmt:brocade-interface"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1"></Ve>
        </interface>
        <system-mode xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/103/system-mode"></system-mode>
</rbridge-id>

```

History

Release version	History
5.0.0	The API call was introduced.
7.0.0	The API call was modified to include the new URIs: <base_URI>/config/running/rbridge-id/{rbridge-number}/evpn-instance <base_URI>/config/running/rbridge-id/{rbridge-number}/host-table <base_URI>/config/running/rbridge-id/{rbridge-number}/bfd-session-setup-delay <base_URI>/config/running/rbridge-id/{rbridge-number}/system-mode

rbridge-id/{rbridge-number}/ag

Configures, modifies, or retrieves all AG mode-related commands.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag	All AG mode-related commands
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag/counter	Set reliability counter value
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag/nport	Set N_Port properties
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag/pg	Creates a new port group
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag/timeout	Set fabric name monitoring

Parameters

Name	Description
<i>enable</i>	Enables Access Gateway mode on a switch
<i>reliability</i>	Specifies the reliability counter value. The value can range from 10 through 100 static change notifications (SCNs) per 5-minute period. The default value is 25 SCNs
<i>modes</i>	Specifies the mode name. Supported mode is lb
<i>rename</i>	Specifies the Port group name
<i>fnm</i>	Specifies the time-out value. The value can range from 30 to 3600 seconds. The default value is 120 seconds
<i>pgid</i>	Specifies the numerical port group identifier. The values can range from 1 through 15. The value of the default port group is 0
<i>agNPortNb</i>	Specifies the N_Port number. N_Ports are identified by rbridge-id/slot/N_Port, such as 3/0/4 for RBridge 3, slot 0, and N_Port 4

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/54/ag
```

Request body

None

Response body

```

<ag xmlns="urn:brocade.com:mgmt:brocade-ag" xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ag">
  <enable>true</enable>
  <counter y:self="/rest/config/running/rbridge-id/1/ag/counter">
    <reliability>25</reliability>
  </counter>
  <timeout y:self="/rest/config/running/rbridge-id/1/ag/timeout">
    <fnm>125</fnm>
  </timeout>
  <nport y:self="/rest/config/running/rbridge-id/1/ag/nport">
    <interface y:self="/rest/config/running/rbridge-id/1/ag/nport/interface">
      nport/interface">
        <FiberChannel
y:self="/rest/config/running/rbridge-id/54/ag/nport/interface/FiberChannel/%2254
/0/6%22">
          <agNPortNb>54/0/6</agNPortNb>
          <map
y:self="/rest/config/running/rbridge-id/54/ag/nport/interface/FiberChannel/%2254
/0/6%22/map">
            <fport
y:self="/rest/config/running/rbridge-id/54/ag/nport/interface/FiberChannel/%2254
/0/6%22/map/fport">
              <interface
y:self="/rest/config/running/rbridge-id/54/ag/nport/interface/FiberChannel/%2254
/0/6%22/map/fport/interface"/>
                </fport>
              </map>
            </FiberChannel>
          </interface>
        </nport>
        <pg y:self="/rest/config/running/rbridge-id/1/ag/pg/2">
          <pgid>2</pgid>
          <nport y:self="/rest/config/running/rbridge-id/1/ag/pg/2/nport">
            <interface
y:self="/rest/config/running/rbridge-id/54/ag/pg/0/nport/interface">
              <FibreChannel>54/0/6</FibreChannel>
            </interface>
          </nport>
          <modes>lb</modes>
          <rename>pg1</rename>
        </pg>
      </ag>

```

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>enable</i> .

rbridge-id/{rbridge-number}/arp

Configures, modifies, or retrieves Address Resolution Protocol (ARP).

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/arp	Address Resolution Protocol (ARP)

Parameters

Name	Description
arp-ip-address	Specifies the IP address of the ARP entry
mac-address-value	Specidfies the MAC address in HHHH.HHHH.HHHH format
interfacename	Specifies the interface to use

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/arp
```

Request body

None

Response body

```
<arp xmlns="urn:brocade.com:mgmt:brocade-arp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/arp/10.24.25.26">
  <arp-ip-address>10.24.25.26</arp-ip-address>
  <mac-address-value>0000.2222.2233</mac-address-value>
  <interfacename>interface</interfacename>
  <FortyGigabitEthernet>195/2/5</FortyGigabitEthernet>
</arp>
```

The following is an example of the PATCH operation to modify ARP configuration.

URI

```
http://host:80/rest/config/running/rbridge-id/1/arp
```

Request body

```
<arp>
  <arp-ip-address>10.34.23.56</arp-ip-address>
  <mac-address-value>0001.0002.0003</mac-address-value>
```



```
<interfacename>interface</interfacename>  
<Ve>233</Ve>  
</arp>
```

The following is an example of the DELETE operation to remove the arp configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/arp`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/bfd-session-setup-delay

Configures, modifies, or retrieves the desired BFD session setup delay.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/bfd-session-setup-delay	Configures the desired BFD session setup delay

Parameters

Name	Description
delay	Specifies the required BFD time delay before establishing the session. The value can range from 5 through 600 seconds

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/195/bfd-session-setup-delay

Request body

None

Response body

```
<bfd-session-setup-delay xmlns="urn:brocade.com:mgmt:brocade-bfd"
xmlns:y="http://brocade.com/ns/rest "
y:self="/rest/config/running/rbridge-id/1/bfd-session-setup-delay">
  <delay>10</delay>
</bfd-session-setup-delay>
```

History

Release version	History
7.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/bp-rate-limit

Configures, modifies, or retrieves BP Rate Limit mode.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/bp-rate-limit	BP Rate Limit mode
<base_URI>/config/running/rbridge-id/{rbridge-number}/bp-rate-limit/heavy	Configures BP Rate limit under heavy load

Parameters

Name	Description
<i>add</i>	Specifies the blade processor to add
<i>remove</i>	Specifies the blade processor to remove

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/1/bp-rate-limit
```

Request body

None

Response body

```
<bp-rate-limit xmlns="urn:brocade.com:mgmt:brocade-bprate-limit"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/bp-rate-limit">
  <heavy y:self="/rest/config/running/rbridge-id/1/bp-rate-limit/heavy">
    <module
y:self="/rest/config/running/rbridge-id/1/bp-rate-limit/heavy/module">
      <add>0</add>
    </module>
  </heavy>
</bp-rate-limit>
```

4 Configuration APIs

History

Release version	History
6.0.0	The API call was introduced.
6.0.1a	The API call was modified to include the <i>add</i> and <i>remove</i> parameters.

rbridge-id/{rbridge-number}/chassis

Configures, modifies, or retrieves the Chassis Virtual address.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/chassis	Chassis Virtual address

Parameters

Name	Description
virtual-ip	Sets an IPv4 address in dotted-decimal notation with a CIDR prefix (mask)
virtual-ipv6	Sets an IPv6 address in colon-separated hexadecimal notation with a CIDR prefix

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/chassis
```

Request body

None

Response body

```
<chassis xmlns="urn:brocade.com:mgmt:brocade-chassis"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/chassis">
  <virtual-ip>10.24.81.195/20</virtual-ip>
  <virtual-ipv6>2001:2017:111:1::/64</virtual-ipv6>
</chassis>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/clock

Configures, modifies, or retrieves system time zone.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/clock	Configure system time zone

Parameters

Name	Description
timezone	Specifies the local clock time zone

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/195/clock

Request body

None

Response body

```
<clock xmlns="urn:brocade.com:mgmt:brocade-clock"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/clock">
  <timezone>Etc/GMT</timezone>
</clock>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/crypto

Configures, modifies, or retrieves Crypto services.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/crypto	Configure crypto services
<base_URI>/config/running/rbridge-id/{rbridge-number}/crypto/ca	Configure trustpoint CA
<base_URI>/config/running/rbridge-id/{rbridge-number}/crypto/key	Configure keypair

Parameters

Name	Description
<i>label</i>	Specifies the name of the key pair
<i>type</i>	Specifies the type of the key pair. Supported types are rsa , ecdsa and dsa
<i>modulus</i>	Specifies the key size. The corresponding key sizes supported for each key type are: RSA: 1024 or 2048, DSA: 1024, ECDSA: 256,384, or 521
<i>trustpoint</i>	Specifies the name of the trust point. The string for the name can not be left blank. The length of the string can range from 1 through 64 characters
<i>keypair</i>	Specifies the name of the key pair to associate with the trust point

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/crypto
```

Request body

None

Response body

```
<crypto xmlns="urn:brocade.com:mgmt:brocade-crypto"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/crypto">
  <key y:self="/rest/config/running/rbridge-id/195/crypto/key/key_label">
    <label>key_label</label>
    <type>rsa</type>
    <modulus>2048</modulus>
  </key>
```

4 Configuration APIs

```
<ca y:self="/rest/config/running/rbridge-id/195/crypto/ca/trust1">  
  <trustpoint>trust1</trustpoint>  
  <keypair>key_label</keypair>  
</ca>  
</crypto>
```

History

Release version	History
6.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/default-config

Configures, modifies, or retrieves the default configuration mode.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/default-config	Configures default configuration mode

Parameters

Name	Description
<i>enable</i>	Enables the switch to always reboot with its default configuration

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/default-config
```

Request body

None

Response body

```
<default-config xmlns="http://brocade.com/ns/brocade-default-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/default-config">
  <enable>true</enable>
</default-config>
```

History

Release version	History
6.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/evpn-instance

Configures, modifies, or retrieves an Ethernet Virtual Private Network (EVPN) instance.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/evpn-instance	Configures an Ethernet Virtual Private Network (EVPN) instance
<base_URI>/config/running/rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/df-delay-timer	Configures the designated forwarder (DF) delay timer
<base_URI>/config/running/rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/duplicate-mac-timer	Configures the timer interval and count for duplicate MAC detection
<base_URI>/config/running/rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/rd	Enables auto-generation of a route distinguisher (RD) for an Ethernet Virtual Private Network (EVPN) instance
<base_URI>/config/running/rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-target	Imports or exports the routes for the router ID for an Ethernet Virtual Private Network (EVPN) instance
<base_URI>/config/running/rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni	Adds and removes VLANs for an EVPN instance and enters VNI configuration mode

Parameters

Name	Description
<i>instance-name</i>	Specifies an EVPN instance name. The value can be up to 32 characters
<i>target-community</i>	Specifies auto-generation of the import and export route-target attributes
<i>ignore-as</i>	Specifies that the autonomous system (AS) number be ignored
<i>auto</i>	Enables auto-generation of a route distinguisher (RD) for an Ethernet Virtual Private Network (EVPN) instance
<i>df-delay-timer</i>	Specifies the time interval for which a device waits before DF election is triggered. The value can range from 3 through 10 seconds. The default value is 3 seconds
<i>duplicate-mac-timer-value</i>	Specifies the duplicate MAC detection timer interval in seconds. The value can range from 5 through 300. The default value is 5
<i>max-count</i>	Specifies the number of times a MAC move can be detected in the configured interval before MAC is suppressed. The value can range from 3 through 10. The default value is 3
<i>vni-number</i>	Specifies a VNI and enters VNI configuration mode. The value can range from 1 through 16777215

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/1/evpn-instance

Request body

None

Response body

```
<evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1">
  <instance-name>evpn1</instance-name>
  <route-target
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/route-target">
    <import
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/route-target/import/
auto">
      <target-community>auto</target-community>
      <ignore-as>true</ignore-as>
    </import>
    <export
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/route-target/expor
t/auto">
      <target-community>auto</target-community>
    </export>
    <both
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/route-target/both/
auto">
      <target-community>auto</target-community>
      <ignore-as>true</ignore-as>
    </both>
  </route-target>
  <rd y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/rd">
    <auto>true</auto>
  </rd>
  <df-delay-timer>4</df-delay-timer>
  <duplicate-mac-timer
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/duplicate-mac-time
r">
    <duplicate-mac-timer-value>10</duplicate-mac-timer-value>
    <max-count>4</max-count>
  </duplicate-mac-timer>
  <vni y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/vni">
    <evpn-vni
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/vni/evpn-vni/1">
      <vni-number>1</vni-number>
      <route-target
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/vni/evpn-vni/1/rou
te-target">
        <import
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/vni/evpn-vni/1/rou
te-target/import/1:1">
          <target-community>1:1</target-community>
        </import>
        <export
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/vni/evpn-vni/1/rou
te-target/export/1:1">
          <target-community>1:1</target-community>
        </export>
```

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```
    <both
y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/vni/evpn-vni/1/rou
te-target/both/1:1">
    <target-community>1:1</target-community>
    </both>
  </route-target>
</evpn-vni>
</vni>
</evpn-instance>
```

History

Release version	History
7.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/fabric

Configures, modifies, or retrieves fabric-related parameters.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric	Allows configuration of fabric-related parameters
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/ecmp	Configure ECMP parameters
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/login-policy	Configure switch login parameters in a fabric
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/port-channel	vLAG load balancing
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/route	Configure routing related parameters

Parameters

Name	Description
<i>load-balance</i>	Specifies the destination load-balancing. Supported configurations are dst-mac-vid , src-dst-ip , src-dst-ip-mac-vid , src-dst-ip-mac-vid-port , src-dst-ip-port , src-dst-mac-vid and src-mac-vid . Configuring dst-mac-vid sets the command to use destination MAC address and VID-based load balancing. Configuring src-dst-ip sets the command to use source and destination IP address-based load balancing. Configuring src-dst-ip-mac-vid sets the command to use source and destination IP and MAC address and VID-based load balancing. Configuring src-dst-ip-mac-vid-port sets the command to use source and destination IP, MAC address, VID and TCP/UDP port-based load balancing. Configuring src-dst-ip-port sets the command to use source and destination IP and TCP/UDP portbased load balancing. Configuring src-dst-mac-vid sets the command to use source and destination MAC address and VIDbased load balancing. Configuring src-mac-vid sets the command to use source MAC address and VID-based load balancing
<i>load-balance-hash-swap</i>	Specifies the control value. The values can range from 0x0 through 0xFFFFFFFF
<i>priority</i>	Specifies multicast routing information priority rbridge-id/{rbridge-number}/fabric/route
<i>po-id</i>	Specifies the Port-channel ID
<i>duplicateWWN</i>	Specifies a login policy. Supported policies are new-login and old-login . Configuring new-login enables the new device to log in and clean up the old login. Configuring old-login enables the old device to retain the login and reject the new login

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

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URI

http://host:80/rest/config/running/rbridge-id/195/fabric

Request body

None

Response body

```
<fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/fabric">
  <ecmp y:self="/rest/config/running/rbridge-id/195/fabric/ecmp">
    <load-balance-hash-swap>500</load-balance-hash-swap>
    <load-balance>dst-mac-vid</load-balance>
  </ecmp>
  <login-policy y:self="/rest/config/running/rbridge-id/1/fabric/login-policy">
    <duplicateWWN>new-login</duplicateWWN>
  </login-policy>
  <route y:self="/rest/config/running/rbridge-id/195/fabric/route">
    <mcast y:self="/rest/config/running/rbridge-id/195/fabric/route/mcast">
      <priority>2</priority>
    </mcast>
  </route>
  <port-channel
y:self="/rest/config/running/rbridge-id/195/fabric/port-channel/600">
    <po-id>600</po-id>
    <load-balance>src-dst-ip</load-balance>
  </port-channel>
</fabric>
```

The following is an example of the PUT operation to add routing related parameters.

URI

http://host:80/rest/config/running/rbridge-id/1/fabric/route/mcast

Request body

```
<mcast>
  <priority>2</priority>
</mcast>
```

Response body

None

The following is an example of the DELETE operation to remove ecmp configuration.

URI

http://host:80/rest/config/running/rbridge-id/1/fabric/ecmp

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/login-policy.

rbridge-id/{rbridge-number}/fcoe

Configures, modifies, or retrieves FCoE configuration commands.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/fcoe	FCoE configuration commands

Parameters

Name	Description
fcoe-enodes	Specifies the number of FCoE interfaces. The value can range from 0 through 1000

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/195/fcoe

Request body

None

Response body

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/fcoe">
  <fcoe-enodes>0</fcoe-enodes>
</fcoe>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/fcsp

Configures, modifies, or retrieves FCSP configuration commands.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/fcsp	FCSP configuration commands
<base_URI>/config/running/rbridge-id/{rbridge-number}/fcsp/auth	Authentication type configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/fcsp/auth/policy	Policy to be enabled

Parameters

Name	Description
<i>group</i>	Specifies the DH group value. This parameter sets the strength of the secret. The values can be 0, 1, 2, 3, 4 or *. The asterisk (*) indicates all values (0 through 4). The default value is *
<i>hash</i>	Specifies the hash type used for authentication. Supported types are sha1 , md5 and all
<i>switch</i>	Specifies the switch authentication policy attribute. supported configurations are on , off , active and passive

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/54/fcsp
```

Request body

None

Response body

```
<fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/fcsp">
  <auth y:self="/rest/config/running/rbridge-id/54/fcsp/auth">
    <group>1</group>
    <hash>sha1</hash>
    <policy y:self="/rest/config/running/rbridge-id/54/fcsp/auth/policy">
      <switch>on</switch>
    </policy>
  </auth>
</fcsp>
```

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```
</auth>  
</fcsp>
```

The following is an example of the PUT operation to enable the policy.

URI

```
http://host:80/rest/config/running/rbridge-id/1/fcsp/auth/policy
```

Request body

```
<policy>  
  <switch>on</switch>  
</policy>
```

Response body

None

The following is an example of the DELETE operation to remove the group value.

URI

```
http://host:80/rest/config/running/rbridge-id/1/fcsp/auth/group
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/filter-change-update-delay

Configures, modifies, or retrieves filter change update delay timer.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/filter-change-update-delay	Change filter change update delay timer

Parameters

Name	Description
<i>filter-delay-value</i>	Specifies the delay, in seconds, in the filter-change status prompt. The value can range from 0 through 600

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/filter-change-update-delay
```

Request body

None

Response body

```
<filter-change-update-delay xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/filter-change-update-delay/15">
  <filter-delay-value>15</filter-delay-value>
</filter-change-update-delay>
```

The following is an example of the DELETE operation to the filter delay value.

URI

```
http://host:80/rest/config/running/rbridge-id/1/filter-change-update-delay
```

Request body

None

Response body

None

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History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/hardware-profile

Configures, modifies, or retrieves a hardware profile on a switch.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile	Configure hardware profile on a switch
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/kap	KAP profile type
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/route-table	Route table profile type
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/tcam	TCAM profile type
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/vlan-classification	VLAN profile type

Parameters

Name	Description
<i>routing_profiletype</i>	Optimizes hardware resources for route profiles. Supported profiles are default , ipv4-max-arp , ipv4-max-route , ipv4-min-v6 , ipv6-max-nd and ipv6-max-route . Configuring default optimizes IPv4/IPv6 resources for dual-stack operations. Configuring ipv4-max-arp optimizes resources for the maximum number of IPv4 ARP entries. Configuring ipv4-max-route optimizes resources for the maximum number of IPv4 routes. Configuring ipv4-min-v6 optimizes resources for IPv4 routes in dual-stack configurations. Configuring ipv6-max-nd optimizes resources for the maximum number of IPv6 Neighbor Discovery entries. Configuring ipv6-max-route optimizes resources for the maximum number of IPv6 routes
<i>TCAM profile type</i>	Optimizes hardware resources for TCAM profiles. Supported profile types are default , ipv4-v6-mcast , ipv4-v6-pbr , ipv4-v6-qos , l2-acl-qos and l2-ipv4-acl . Configuring default optimizes resources with basic support for all applications. Configuring dyn-arp-insp optimizes resources for dynamic ARP inspection (DAI). Configuring ipv4-v6-mcast optimizes resources for multicast. Configuring ipv4-v6-pbr optimizes resources for IPv4 and IPv6 ACLs and policy-based routing tables. Configuring ipv4-v6-qos optimizes resources for IPv4 and IPv6 ACLs and QoS. Configuring l2-acl-qos optimizes resources for Layer 2 ACLs and QoS. Configuring l2-ipv4-acl optimizes resources for Layer 2 IPv4 ACLs. Configuring openflow optimizes for OpenFlow support
<i>routing_profiletype</i>	Optimizes hardware resources for route profiles. Supported configurations are default , ipv4-max-arp , ipv4-max-route , ipv4-min-v6 , ipv6-max-nd , ipv6-max-route , openflow-default , openflow-ipv4-max-arp , openflow-ipv4-max-route , openflow-ipv4-min-v6 , openflow-ipv6-max-nd and openflow-ipv6-max-route . Configuring default optimizes IPv4/IPv6 resources for dual-stack operations. Configuring ipv4-max-arp optimizes resources for the maximum number of IPv4 ARP entries. Configuring ipv4-max-route optimizes resources for the maximum number of IPv4 routes. Configuring ipv4-min-v6 optimizes resources for IPv4 routes in dual-stack configurations. Configuring ipv6-max-nd optimizes resources for the maximum number of IPv6 Neighbor Discovery entries. Configuring ipv6-max-route optimizes resources for the maximum number of IPv6 routes

Name	Description
<code>maximum_paths</code>	Specifies 8, 16, or 32 maximum paths
<code>kap_profiletype</code>	Optimizes hardware resources for KAP profiles, to support hitless failover for the supported protocols. Supported profile types are custom-profile name and default . Configuring custom-profile name configures a profile name. Configuring default Optimizes basic support for all applications
<code>kap_profilename</code>	Configures the KAP profile name
<code>vlan_profiletype</code>	Sets the VLAN profile type as default (Optimizes resources with basic support for all applications), tor-virtualfabric (Optimizes top-of-rack resources for Virtual Fabrics), tor-vxlan-gw (Optimizes top-of-rack resources for VXLAN gateways), aggregator-basic (Optimizes basic resources for aggregators for all applications), aggregator-virtualfabric (Optimizes resources for Virtual Fabric aggregators) or aggregator-vxlan-gw (Optimizes resources for VXLAN gateway aggregators)

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/hardware-profile
```

Request body

None

Response body

```
<hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/hardware-profile">
  <tcam y:self="/rest/config/running/rbridge-id/195/hardware-profile/tcam">
    <tcam_profiletype>ipv4-v6-mcast</tcam_profiletype>
  </tcam>
  <route-table
y:self="/rest/config/running/rbridge-id/1/hardware-profile/route-table">
    <routing_profiletype>default</routing_profiletype>
    <maximum_paths>16</maximum_paths>
  </route-table>
  <kap y:self="/rest/config/running/rbridge-id/1/hardware-profile/kap">
    <kap_profiletype>default</kap_profiletype>
    <custom-profile
y:self="/rest/config/running/rbridge-id/1/hardware-profile/kap/custom-profile">
      <kap_profilename>kap1</kap_profilename>
    </custom-profile>
  </kap>
  <vlan-classification
y:self="/rest/config/running/rbridge-id/195/hardware-profile/vlan-classification">
    <vlan_profiletype>aggregator-basic</vlan_profiletype>
  </vlan-classification>
</hardware-profile>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API call was modified to include the parameter <i>vlan_profiletype</i> .
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/kap.

rbridge-id/{rbridge-number}/http

Configures, modifies, or retrieves all HTTP server commands.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/http	Configures HTTP server
<base_URI>/config/running/rbridge-id/{rbridge-number}/http/server	Configures HTTP server

Parameters

Name	Description
shutdown	Disables HTTP/HTTPS service
use-vrf-name	Specifies a user-defined VRF
use-vrf shutdown	Shuts down the user-defined VRF

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/54/http
```

Request body

None

Response body

```
<http xmlns="urn:brocade.com:mgmt:brocade-http"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/http">
  <server y:self="/rest/config/running/rbridge-id/1/http/server">
    <shutdown>true</shutdown>
    <use-vrf
y:self="/rest/config/running/rbridge-id/1/http/server/use-vrf/mgmt-vrf">
      <use-vrf-name>mgmt-vrf</use-vrf-name>
      <shutdown>true</shutdown>
    </use-vrf>
  </server>
</http>
```


History

Release version	History
6.0.1a	The API call was introduced.

rbridge-id/{rbridge-number}/host-table

Configures, modifies, or retrieves the hardware host table configuration.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/host-table/aging-mode	Enables conversational Address Resolution Protocol (ARP) and conversational Neighbor Discovery (ND). Such enablement reduces ARP and ND control traffic.
<base_URI>/config/running/rbridge-id/{rbridge-number}/host-table/aging-time	Specifies a non-default aging-time value for conversational ARP and ND.

Parameters

Name	Description
<i>aging-mode conversational</i>	Enables conversational ARP and conversational ND
<i>aging-time conversational</i>	Specifies the aging-time value for conversational ARP and ND. The value can range from 60 through 100000 seconds. The default value is 300 seconds

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/1/host-table
```

Request body

None

Response body

```
<host-table xmlns="urn:brocade.com:mgmt:brocade-arp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/host-table">
  <aging-mode y:self="/rest/config/running/rbridge-id/1/host-table/aging-mode">
    <conversational>true</conversational>
  </aging-mode>
  <aging-time y:self="/rest/config/running/rbridge-id/1/host-table/aging-time">
    <conversational>350</conversational>
  </aging-time>
</host-table>
```

The following is an example of the POST operation to configure the aging-time value for conversational ARP and ND.

URI

`http://host:80/rest/config/running/rbridge-id/1/host-table/aging-time`

Request body

`<conversational>400</conversational>`

Response body

None

The following is an example of the DELETE operation to remove the aging-time value.

URI

`http://host:80/rest/config/running/rbridge-id/1/host-table/aging-time`

Request body

None

Response body

None

History

Release version	History
7.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/interface

Configures, modifies, or retrieves interface configuration.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface	Interface configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/loopback	Interface loopback port
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/loopback/{loopback-number}/vrf	Assign VRF to this Ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/loopback/{loopback-number}/ipv6	Assign IPv6 to this Ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/loopback/{loopback-number}/ip	Assign IP to this Ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve	Interface VE number
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/ip	Assign IP to this Ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/ipv6	Assign IPv6 to this Ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/snmp	Enables SNMP traps
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/vrf	Assign VRF to this Ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/vrrp-extended-group/arp	Configures ARP unicast receive

Parameters

Name	Description
<i>id</i>	Specifies the port number for the loopback interface. The value can range from 1 through 255
<i>shutdown</i>	Shuts down the interface
<i>forwarding</i>	Specifies the name of the VRF option for the port
<i>name</i>	Configures the VE interface number
<i>ip-address</i>	Configures the IPv4 anycast address and mask
<i>address</i>	Specifies the IP address
<i>use-vrf</i>	Specifies the VRF name
<i>mtu</i>	Specifies the size of the MTU to be advertised in bytes. The value can range from 1280 through 65535 bytes. The default value is 1500 bytes
<i>directed-broadcast</i>	Enables IP directed broadcasts on an interface

Name	Description
<i>proxy-arp</i>	Enables Proxy-ARP on the interface
<i>arp-aging-timeout</i>	Specifies how long an ARP entry stays in cache. The value can range from 0 through 240 minutes
<i>last-member-query-interval</i>	Configures Last Member Query Interval value
<i>query-interval</i>	Configures Query Interval value
<i>immediate-leave</i>	Configures Immediate Leave Processing value
<i>ipv6-address</i>	Specifies the IPv6 address of a neighbor in A:B:C:D format
<i>managed-config-flag</i>	Sets managed config flag in router advertisement
<i>other-config-flag</i>	Sets other config flag in router advertisement
<i>ra-lifetime</i>	Specifies the time in seconds. The value can range from 0 through 9000 seconds. The default time is 1800 seconds
<i>reachable-time</i>	Specifies the time in milliseconds. The value can range from 0 through 3600000 milliseconds. The default value is 0
<i>retrans-timer</i>	Specifies the interval in milliseconds, at which NS messages are sent. The value can range from 0 through 4294967295 milliseconds. The default is 0
<i>hoplimit</i>	Specifies the number of hops to be advertised. The value can range from 0 through 255. The default value is 64
<i>ns-interval</i>	Specifies the number of seconds between neighbor solicitation messages. The value can range from 1 through 5 seconds. The default value is 1 second
<i>proxy</i>	Enables proxy flag
<i>max-interval</i>	Specifies the maximum interval range in seconds. The value can range from 4 through 1800 seconds. The default interval is 200 through 600 seconds, with messages sent randomly within that interval
<i>min</i>	Specifies a minimum interval in seconds. The value can range from 0 through 1800 seconds. The default interval is 200 seconds
<i>attempts</i>	Specifies the number of solicitations. The values can range from 0 through 10. The default value is 2
<i>time</i>	Specifies the time in seconds. The value can range from 1 through 5 seconds. The default time is 1 second
<i>expire</i>	Specifies the interval in minutes. The value can range from 1 through 240 minutes. The default interval is 240 minutes
<i>receive</i>	Receives unicast ARP requests
<i>shutdown</i>	Shuts down the selected interface
<i>use-v2-checksum</i>	Enables v2 checksum computation method for VRRP

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/54/interface

Request body

None

Response body

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/interface">
  <Loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10">
    <id>10</id>
    <shutdown>true</shutdown>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-interface"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/vrf">
      <forwarding>vrf1</forwarding>
    </vrf>
    <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6">
      <address
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/address"/>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/ospf">
        <authentication
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/ospf/authen
tication">
          <ipsec
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/ospf/authen
tication/ipsec"/>
        </authentication>
      </ospf>
    </ipv6>
    <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip">
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf">
        <authentication-key
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/authent
ication-key"/>
        <md5-authentication
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/md5-aut
hentication">
          <key-id
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/md5-aut
hentication/key-id"/>
        </md5-authentication>
        <database-filter
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/databas
e-filter"/>
      </ospf>
    </ip>
  </Loopback>
  <Ve xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1">
    <name>1</name>
```

```

    <ip xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip">
    <policy
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/policy">
    <route-map
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/policy/route-map"/>
    </policy>
    <anycast-address xmlns="urn:brocade.com:mgmt:brocade-vrrp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/anycast-address/%22
192.128.2.1/24%22">
    <ip-address>192.128.2.1/24</ip-address>
    </anycast-address>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf">
    <authentication-key
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/authentication
-key"/>
    <md5-authentication
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/md5-authentica
tion">
    <key-id
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/md5-authentica
tion/key-id"/>
    </md5-authentication>
    <database-filter
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/database-filte
r"/>
    </ospf>
    <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/icmp"/>
    <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/dhcp">
    <relay
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/dhcp/relay">
    <servers
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/dhcp/relay/servers/
1.1.1.1%2Cmgmt-vrf">
    <address>1.1.1.1</address>
    <use-vrf>mgmt-vrf</use-vrf>
    </servers>
    <gateway>1.1.1.1</gateway>
    </relay>
    </dhcp>
    <mtu xmlns="urn:brocade.com:mgmt:brocade-ip-config">1600</mtu>
    <directed-broadcast
xmlns="urn:brocade.com:mgmt:brocade-ip-config">true</directed-broadcast>
    <proxy-arp xmlns="urn:brocade.com:mgmt:brocade-ip-config">true</proxy-arp>
    <arp-aging-timeout
xmlns="urn:brocade.com:mgmt:brocade-ip-config">10</arp-aging-timeout>
    <pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/pim"/>
    <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/igmp">
    <last-member-query-interval>1100</last-member-query-interval>
    <query-interval>130</query-interval>
    <immediate-leave>true</immediate-leave>
    </igmp>
    </ip>
    <snmp y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/snmp">

```

4 Configuration APIs

```
        <trap y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/snmp/trap">
        </trap>
    </snmp>
    <vrf y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/vrf"/>
    <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6">
        <anycast-address xmlns="urn:brocade.com:mgmt:brocade-vrrp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/anycast-address/%
222001:1:0:1::1/64%22">
            <ipv6-address>2001:1:0:1::1/64</ipv6-address>
        </anycast-address>
        <vrrp-suppress-interface-ra
xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">true</vrrp-suppress-interface-ra
>
        <nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd">
            <managed-config-flag>true</managed-config-flag>
            <other-config-flag>true</other-config-flag>
            <ra-lifetime>1850</ra-lifetime>
            <reachable-time>1</reachable-time>
            <mtu>1600</mtu>
            <retrans-timer>1</retrans-timer>
            <hoplimit>66</hoplimit>
            <ns-interval>2</ns-interval>
            <proxy>true</proxy>
            <suppress-ra
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd/suppress-ra">
                <mtu>true</mtu>
                <all>true</all>
            </suppress-ra>
            <ra-interval
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd/ra-interval">
                <max-interval>700</max-interval>
                <min>250</min>
            </ra-interval>
            <dad
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd/dad">
                <attempts>3</attempts>
                <time>2</time>
            </dad>
            <cache
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd/cache">
                <expire>145</expire>
            </cache>
        </nd>
        <policy xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/policy">
            <route-map
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/policy/route-map"
/>
                </policy>
            <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcpv6"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/dhcp">
                <relay
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/dhcp/relay"/>
                    </dhcp>
                    <address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/address"/>
                        <mtu xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">1300</mtu>
```



```

        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/ospf">
        <authentication
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/ospf/authentication">
        <ipsec
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/ospf/authentication/ipsec"/>
        </authentication>
        </ospf>
    </ipv6>
    <vrrp-group xmlns="urn:brocade.com:mgmt:brocade-vrrp"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-group/10%2C3">
        <vrid>10</vrid>
        <version>3</version>
        <use-v2-checksum>true</use-v2-checksum>
        <track
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-group/10%2C3/track"/>
        <advertisement-interval>1000</advertisement-interval>
        <preempt-mode>true</preempt-mode>
    </vrrp-group>
    <vrrp-extended-group xmlns="urn:brocade.com:mgmt:brocade-vrrp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-extended-group/10"
>
        <vrid>10</vrid>
        <arp
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-extended-group/10/arp">
        <unicast-request
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-extended-group/10/arp/unicast-request">
            <receive>true</receive>
        </unicast-request>
        </arp>
    </vrrp-extended-group>
    <shutdown xmlns="urn:brocade.com:mgmt:brocade-ip-config">true</shutdown>
</Ve>
</interface>

```

The following is an example of the PUT operation to add IGMP configurations.

URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ip/igmp
```

Request body

```

<igmp>
  <last-member-query-interval>1125</last-member-query-interval>
  <query-interval>135</query-interval>
  <immediate-leave>true</immediate-leave>
</igmp>

```

Response body

None

The following is an example of the DELETE operation to remove IP address from interface Loopback configuration.

4 Configuration APIs

URI

`http://host:80/rest/config/running/rbridge-id/1/interface/Loopback/1/ip/address`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
5.0.1a	The API call was modified to include the parameter <i>vrp-group</i> .
6.0.1	The API call was modified to include the parameter <i>receive</i> under <i>vrp-extended-group/arp/unicast-request</i> .
7.0.0	The API call was modified to include the new URI <code><base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/snmp</code> .

rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ip/ fabric-virtual-gateway

Configures, modifies, or retrieves the Internet Protocol (IP) Fabric-Virtual-Gateway configuration in RBridge-ID.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway	Internet Protocol (IP) Fabric-Virtual-Gateway configuration in RBridge-ID

Parameters

Name	Description
<i>local-ip-gw-id</i>	Specifies the gateway ID
<i>interface-type</i>	Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and Port-Channel
<i>interface-name</i>	Specifies the interface name in [rbridge-id]/slot/port format or Port-channel interface number
<i>priority</i>	Specifies the track priority. The value can range from 1 through 254
<i>network-address</i>	Specifies the network address
<i>next-hop-address</i>	Specifies the next-hop address
<i>enable</i>	Enables IPv4 Fabric-Virtual-Gateway sessions in VCS
<i>disable</i>	Disables Fabric-Virtual-Gateway
<i>threshold-priority</i>	Specifies the load balancing threshold priority. The value can range from 1 through 254

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the Internet Protocol (IP) Fabric-Virtual-Gateway configuration in RBridge-ID.

URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gateway
```

Request body

None

Response body

4 Configuration APIs

```
<fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23">
  <local-ip-gw-id>23</local-ip-gw-id>
  <track
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/track">
    <interface
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/track/interface/FortyGigabitEthernet%2C%221/0/50%22">
      <interface-type>FortyGigabitEthernet</interface-type>
      <interface-name>1/0/50</interface-name>
      <priority>25</priority>
    </interface>
    <network
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/track/network/%221.1.1.1/24%22">
      <network-address>1.1.1.1/24</network-address>
      <priority>26</priority>
    </network>
    <next-hop
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/track/next-hop/1.1.1.1">
      <next-hop-address>1.1.1.1</next-hop-address>
      <priority>28</priority>
    </next-hop>
  </track>
  <enable>true</enable>
  <load-balancing
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/load-balancing">
    <threshold-priority>25</threshold-priority>
  </load-balancing>
</fabric-virtual-gateway>
```

The following is an example of the POST operation to track the network address 1.1.1.1/24.

URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual
-gateway/23/track
```

Request body

```
<network>
  <network-address>1.1.1.1/24</network-address>
  <priority>26</priority>
</network>
```

Response body

None

The following is an example of the DELETE operation to remove the tracking of a FortyGigabitEthernet interface.

URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual
-gateway/23/track/interface/FortyGigabitEthernet/%221/0/50%22
```

Request body

None

Response body

None

History

Release version	History
5.0.1	The API call was introduced.
6.0.0	The API call was not supported.
6.0.1	The API call was supported.

rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6) Fabric-Virtual-Gateway configuration in RBridge-ID.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway	Internet Protocol version 6 (IPv6) Fabric-Virtual-Gateway configuration in RBridge-ID

Parameters

Name	Description
<i>local-ipv6-gw-id</i>	Specifies the gateway id
<i>ipv6-interface-type</i>	Specifies the interface type
<i>ipv6-interface-name</i>	Specifies the interface name
<i>priority</i>	Specifies the track priority. The value can range from 1 through 254
<i>ipv6-network-address</i>	Specifies the network address
<i>ipv6-next-hop-address</i>	Specifies the next-hop IP address
<i>enable</i>	Enables IPv6 Fabric-Virtual-Gateway sessions
<i>disable</i>	Disables IPv6 Fabric-Virtual-Gateway sessions
<i>threshold-priority</i>	Configures the threshold priority value

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the Internet Protocol version 6 (IPv6) Fabric-Virtual-Gateway configuration in RBridge-ID.

URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gateway
```

Request body

None

Response body

```
<fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gateway/1">
```

```

    <local-ipv6-gw-id>1</local-ipv6-gw-id>
    <track
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/track">
      <interface
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/track/interface/FortyGigabitEthernet%2C%221/0/50%22">
        <ipv6-interface-type>FortyGigabitEthernet</ipv6-interface-type>
        <ipv6-interface-name>1/0/50</ipv6-interface-name>
        <priority>22</priority>
      </interface>
      <network
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/track/network/%1::/64%22">
        <ipv6-network-address>1::/64</ipv6-network-address>
        <priority>24</priority>
      </network>
      <next-hop
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/track/next-hop/1::1">
        <ipv6-next-hop-address>1::1</ipv6-next-hop-address>
        <priority>25</priority>
      </next-hop>
    </track>
    <enable>true</enable>
    <disable>true</disable>
    <load-balancing
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/load-balancing">
      <threshold-priority>25</threshold-priority>
    </load-balancing>
  </fabric-virtual-gateway>

```

The following is an example of the POST operation to track a TenGigabitEthernet interface.

URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/ve/1/ipv6/fabric-virtu
al-gateway/25/track
```

Request body

```

<interface>
  <ipv6-interface-type>TenGigabitEthernet</ipv6-interface-type>
  <ipv6-interface-name>1/0/5</ipv6-interface-name>
  <priority>25</priority>
</interface>

```

Response body

None

The following is an example of the DELETE operation to remove the tracking of a FortyGigabitEthernet interface.

URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/ve/1/ipv6/fabric-virtu
al-gateway/1/track/interface/FortyGigabitEthernet/%221/0/55%22
```

4 Configuration APIs

Request body

None

Response body

None

History

Release version	History
5.0.1	The API call was introduced.
6.0.0	The API call was not supported.
6.0.1	The API call was supported.

rbridge-id/{rbridge-number}/ip

Configures, modifies, or retrieves Internet Protocol (IP).

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/as-path	Configures IP AS Path. Refer to rbridge-id/{rbridge-number}/ip/as-path for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/community-list	Configures IP Community list. Refer to rbridge-id/{rbridge-number}/ip/community-list for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/dhcp	Configures Dynamic Host Configuration Protocol (DHCP). Refer to rbridge-id/{rbridge-number}/ip/dhcp for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/extcommunity-list	Sets BGP Extended Community filter. Refer to rbridge-id/{rbridge-number}/ip/extcommunity-list for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/import	Imports IPv4 routes. Refer to rbridge-id/{rbridge-number}/ip/import for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/prefix-list	Configures IP address prefix list. Refer to rbridge-id/{rbridge-number}/ip/prefix-list for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/receive	Configures IP receive access group. Refer to rbridge-id/{rbridge-number}/ip/receive for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route	Configures static route. Refer to rbridge-id/{rbridge-number}/ip/route for information.

Parameters

Name	Description
<i>route</i>	Configures static route
<i>extcommunity-list</i>	Sets BGP Extended Community filter
<i>import</i>	Imports IPv4 routes
<i>dhcp</i>	Configures Dynamic Host Configuration Protocol (DHCP)
<i>community-list</i>	Configures IP Community list
<i>as-path</i>	Configures IP AS Path
<i>prefix-list</i>	Configures IP address prefix list
<i>load-sharing</i>	Enables IP load sharing
<i>router-id</i>	Specifies the IPv4 address that you want as the router ID

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

NOTE

The *load-sharing* parameter has been deprecated.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/rbridge-id/195/ip`

Request body

None

Response body

```
<ip xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ip">
  <router-id xmlns="urn:brocade.com:mgmt:brocade-rtm">10.24.25.26</router-id>
  <load-sharing xmlns="urn:brocade.com:mgmt:brocade-rtm">2</load-sharing>
  <route xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/ip/route"/>
    <extcommunity-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/extcommunity-list/1"/>
      <anycast-gateway-mac xmlns="urn:brocade.com:mgmt:brocade-vrrp"
y:self="/rest/config/running/rbridge-id/195/ip/anycast-gateway-mac"></anycast-ga
teway-mac>
      <import xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/ip/import"/>
        <receive xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
y:self="/rest/config/running/rbridge-id/1/ip/receive">
          <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ip/dhcp"/>
            <community-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/community-list"/>
              <as-path xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/as-path"/>
                <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/prefix-list/prefix554%2Cseq%2C10"
/>
              />
            </community-list>
          </dhcp>
        </receive>
      </import>
    </extcommunity-list>
  </route>
</ip>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.1a	The API call was modified to include the <i>receive</i> parameter.
7.0.0	The API call was modified to include the new URI: <base_URI>/config/running/rbridge-id/{rbridge-number}/ip/anycast-gateway-mac.

rbridge-id/{rbridge-number}/ip/anycast-gateway-mac

Configures, modifies, or retrieves the IPv4 anycast gateway MAC address.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/anycast-gateway-mac	Configures the IPv4 anycast gateway MAC address.

Parameters

Name	Description
<i>ip-anycast-gateway-mac</i>	Specifies the IPv4 anycast gateway MAC address. Possible configurations are default-mac or <i>mac-address</i> . Configuring default-mac will set the the IPv4 anycast gateway MAC address to 02e0.5200.0100. Configuring <i>mac-address</i> will set the IPv4 anycast gateway MAC address to a non-default IPv4 anycast gateway MAC address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ip/anycast-gateway-mac
```

Request body

None

Response body

```
<anycast-gateway-mac xmlns="urn:brocade.com:mgmt:brocade-vrrp"
y:self="/rest/config/running/rbridge-id/195/ip/anycast-gateway-mac">
  <ip-anycast-gateway-mac>0000.abba.baba</ip-anycast-gateway-mac>
</anycast-gateway-mac>
```

History

Release version	History
7.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ip/as-path

Configures, modifies, or retrieves Internet Protocol (IP) AS path.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/as-path	Configures IP AS Path

Parameters

Name	Description
<i>name</i>	Specifies the ACL name
<i>seq-keyword</i>	Configures the sequence number of entry
<i>instance</i>	Specifies the sequence number. The value can range from 1 thorough 65535
<i>ip-action</i>	Sets the action to be performed as deny (Disallow matching pattern), permit (Allow matching pattern or seq (Sequence number of entry)
<i>ip-reg-expr</i>	Configures the regular expression string

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ip/as-path
```

Request body

None

Response body

```
<as-path xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/as-path">
  <access-list
y:self="/rest/config/running/rbridge-id/195/ip/as-path/access-list/seq%2Cseq%2C5
">
    <name>seq</name>
    <seq-keyword>seq</seq-keyword>
    <instance>5</instance>
    <ip-action>permit</ip-action>
    <ip-reg-expr>myaspath</ip-reg-expr>
  </access-list>
</as-path>
```

The following is an example of the POST operation to add IP as path configurations.

URI

`http://host:80/rest/config/running/rbridge-id/1/ip/as-path`

Request body

```
<access-list>
  <name>acl1</name>
  <seq-keyword>seq</seq-keyword>
  <instance>6</instance>
  <ip-action>permit</ip-action>
  <ip-reg-expr>mypath</ip-reg-expr>
</access-list>
```

Response body

None

The following is an example of the DELETE operation to remove the IP as path configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/ip/as-path/access-list`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ip/community-list

Configures, modifies, or retrieves Internet Protocol (IP) community list.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/community-list	Configures IP Community list

Parameters

Name	Description
<i>name</i>	Specifies the community list name. The value can range from 1 through 32 ASCII characters
<i>seq-keyword</i>	Configures the sequence number of entry
<i>instance</i>	Specifies the sequence number. The value can range from 1 through 65535
<i>ip-action</i>	Sets the action to be performed as deny (Disallow matching pattern), permit (Allow matching pattern)
<i>ip-community-reg-expr</i>	Configures a ordered community list regular expression

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ip
```

Request body

None

Response body

```
<community-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/community-list">
  <extended
y:self="/rest/config/running/rbridge-id/195/ip/community-list/extended/comlist1%
2Cseq%2C5">
    <name>comlist1</name>
    <seq-keyword>seq</seq-keyword>
    <instance>5</instance>
    <ip-action>deny</ip-action>
    <ip-community-reg-expr>test</ip-community-reg-expr>
  </extended>
```

```
</community-list>
```

The following is an example of the POST operation to add IP community list configurations.

URI

```
http://host:80/rest/config/running/rbridge-id/1/ip/community-list
```

Request body

```
<extended>
  <name>comlist5</name>
  <seq-keyword>seq</seq-keyword>
  <instance>6</instance>
  <ip-action>deny</ip-action>
  <ip-community-reg-expr>test1</ip-community-reg-expr>
</extended>
```

Response body

None

The following is an example of the DELETE operation to remove the IP community list configuration.

URI

```
http://host:80/rest/config/running/rbridge-id/1/ip/community-list/extended
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ip/dhcp

Configures, modifies, or retrieves IP Dynamic Host Configuration Protocol (DHCP).

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/dhcp	Configures Dynamic Host Configuration Protocol (DHCP)

Parameters

Name	Description
<i>option</i>	Enables DHCP relay information

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ip
```

Request body

None

Response body

```
<dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ip/dhcp">
  <relay y:self="/rest/config/running/rbridge-id/1/ip/dhcp/relay">
    <information
y:self="/rest/config/running/rbridge-id/1/ip/dhcp/relay/information">
      <option>true</option>
    </information>
  </relay>
</dhcp>
```

History

Release version	History
6.0.1	The API call was introduced.

rbridge-id/{rbridge-number}/ip/extcommunity-list

Configures, modifies, or retrieves IP BGP Extended Community filter.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/extcommunity-list	Sets BGP Extended Community filter

Parameters

Name	Description
<i>extcommunity-list-num</i>	Specifies an Extended Community list Instance number
<i>ext-community-action</i>	Specifies the action. Supported actions are deny and permit . Configuring deny denies access for a matching condition. Configuring permit permits access for a matching condition
<i>ext-community-expr</i>	Specifies the extended community type. Supported types are rt and soo . Configuring rt enables the route target (RT) extended community. Configuring soo enables the site of origin (SOO) extended community

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ip
```

Request body

None

Response body

```
<extcommunity-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/extcommunity-list/1">
  <extcommunity-list-num>1</extcommunity-list-num>
  <ext-community-action>permit</ext-community-action>
  <ext-community-expr>rt 12:12 soo 13:11</ext-community-expr>
</extcommunity-list>
```

The following is an example of the DELETE operation to remove the IP extcommunity list configuration.

URI

```
http://host:80/rest/config/running/rbridge-id/1/ip/extcommunity-list
```

4 Configuration APIs

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ip/import

Configures, modifies, or retrieves IPv4 routes.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/import	Imports IPv4 routes

Parameters

Name	Description
src-vrf	Specifies the VRF instance from which to leak routes to the default VRF
map	Specifies the map name to use for route-leaking match criteria

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ip
```

Request body

None

Response body

```
<import xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/ip/import">
  <routes
y:self="/rest/config/running/rbridge-id/195/ip/import/routes/mgmt-vrf%2Cmap1">
    <src-vrf>mgmt-vrf</src-vrf>
    <map>map1</map>
  </routes>
</import>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ip/prefix-list

Configures, modifies, or retrieves IP address prefix list.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/prefix-list	Configures IP address prefix list

Parameters

Name	Description
<i>name</i>	Specifies the prefix list name
<i>seq-keyword</i>	Configures the sequence number of entry
<i>action-ipp</i>	Sets the action to be performed as deny (Disallow matching pattern) or permit (Allow matching pattern)
<i>instance</i>	Specifies the sequence number
<i>iprefix-ipp</i>	Specifies the IPv4 prefix
<i>le</i>	Specifies the maximum IP prefix length

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/rbridge-id/195/ip`

Request body

None

Response body

```
<prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/prefix-list/prefix554%2Cseq%2C10"
>
  <name>prefix554</name>
  <seq-keyword>seq</seq-keyword>
  <instance>10</instance>
  <action-ipp>permit</action-ipp>
  <iprefix-ipp>192.168.10.1/24</prefix-ipp>
  <le>64</le>
</prefix-list>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ip/receive

Configures, modifies, or retrieves IP receive access group.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/receive	Configures IP receive access group

Parameters

Name	Description
<i>ip-access-list</i>	Specifies IP access list name
<i>ip-direction</i>	Specifies ingress direction

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ip/receive
```

Request body

None

Response body

```
<receive xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ip/receive">
  <access-group
y:self="/rest/config/running/rbridge-id/195/ip/receive/access-group">
    <ip-access-list>ipv4-receive-acl-example</ip-access-list>
    <ip-direction>in</ip-direction>
  </access-group>
</receive>
```

History

Release version	History
6.0.1a	The API call was introduced.

rbridge-id/{rbridge-number}/ip/route

Configures, modifies, or retrieves IP static route.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route	Configures static route
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route/static	BFD static route
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route/static/bfd	Configure BFD session

Parameters

Name	Description
static-route-dest	Specifies the destination IPv4 address and mask
static-route-next-hop	Specifies the IPv4 address of the next hop

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/195/ip

Request body

None

Response body

```
<route xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/ip/route">
  <static-route-nh
y:self="/rest/config/running/rbridge-id/195/ip/route/static-route-nh/%220.0.0.0/0%22%2C10.20.232.1">
    <static-route-dest>0.0.0.0/0</static-route-dest>
    <static-route-next-hop>10.20.232.1</static-route-next-hop>
  </static-route-nh>
  <static y:self="/rest/config/running/rbridge-id/1/ip/route/static">
    <bfd y:self="/rest/config/running/rbridge-id/1/ip/route/static/bfd">
      <bfd-static-route
y:self="/rest/config/running/rbridge-id/1/ip/route/static/bfd/bfd-static-route/10.20.38.100%2C10.20.34.120">
        <bfd-static-route-dest>10.20.38.100</bfd-static-route-dest>
        <bfd-static-route-src>10.20.34.120</bfd-static-route-src>
```

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```
<interval>100</interval>
<min-rx>75</min-rx>
<multiplier>4</multiplier>
</bfd-static-route>
<holdover-interval>10</holdover-interval>
</bfd>
</static>
</route>
```

The following is an example of the POST operation to add the BFD holdover interval.

URI

`http://host:80/rest/config/running/rbridge-id/1/ip/route/static/bfd`

Request body

```
<holdover-interval>20</holdover-interval>
```

Response body

None

The following is an example of the DELETE operation to remove the BFD holdover interval.

URI

`http://host:80/rest/config/running/rbridge-id/1/ip/route/static/bfd/holdover-interval`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route/static/bfd.

rbridge-id/{rbridge-number}/ipv6

Configures, modifies, or retrieves Internet Protocol version 6 (IPv6).

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configures Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/import	Imports IPv6 routes. Refer to rbridge-id/{rbridge-number}/ipv6/import for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/nd	Configures Neighbor Discovery commands. Refer to rbridge-id/{rbridge-number}/ipv6/nd for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/prefix-list	Sets IPv6 address prefix list. Refer to rbridge-id/{rbridge-number}/ipv6/prefix-list for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/protocol	Configures IPv6 protocol. Refer to rbridge-id/{rbridge-number}/ipv6/protocol for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/receive	Configures IPv6 receive access group. Refer to rbridge-id/{rbridge-number}/ipv6/receive for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/route	Configures IPv6 unicast static route. Refer to rbridge-id/{rbridge-number}/ipv6/route for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/router	Configures IPv6 router. Refer to rbridge-id/{rbridge-number}/ipv6/router for information.

Parameters

Name	Description
<i>protocol</i>	Configures protocol parameters
<i>prefix-list</i>	Configures IPv6 address prefix list parameters
<i>route</i>	Configures IPv6 unicast static route parameters
<i>import</i>	Configures imported IPv6 routes
<i>nd</i>	Configures Neighbor Discovery commands
<i>router</i>	Configures IPv6 router parameters

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/195/ipv6

Request body

None

Response body

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ipv6">
  <protocol xmlns="urn:brocade.com:mgmt:brocade-vrrpv3"
y:self="/rest/config/running/rbridge-id/195/ipv6/protocol"/>
    <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ipv6/prefix-list/deny554%2Cseq%2C10"
/>
    <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ipv6/route"/>
      <anycast-gateway-mac xmlns="urn:brocade.com:mgmt:brocade-vrrp"
y:self="/rest/config/running/rbridge-id/195/ipv6/anycast-gateway-mac"></anycast-
gateway-mac>
      <import xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
y:self="/rest/config/running/rbridge-id/195/ipv6/import"/>
      <nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/rbridge-id/195/ipv6/nd"/>
      <receive xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/rbridge-id/1/ipv6/receive">
      <router y:self="/rest/config/running/rbridge-id/195/ipv6/router"/>
</ipv6>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.1a	The API call was modified to include the <i>receive</i> parameter.
7.0.0	The API call was modified to include the new URI: <base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac.

rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac

Configures, modifies, or retrieves the IPv6 anycast gateway MAC address.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac	Configures the IPv6 anycast gateway MAC address.

Parameters

Name	Description
<i>ipv6-anycast-gateway-mac</i>	Specifies the IPv6 anycast gateway MAC address. Possible configurations are default-mac or <i>mac-address</i> . Configuring default-mac will set the the IPv6 anycast gateway MAC address to 02e0.5200.0200. Configuring <i>mac-address</i> will set the IPv6 anycast gateway MAC address to the non-default IPv6 anycast gateway MAC address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/57/ipv6/anycast-gateway-mac
```

Request body

None

Response body

```
<anycast-gateway-mac xmlns="urn:brocade.com:mgmt:brocade-vrrp"
y:self="/rest/config/running/rbridge-id/57/ipv6/anycast-gateway-mac">
  <ipv6-anycast-gateway-mac>0000.abba.abba</ipv6-anycast-gateway-mac>
</anycast-gateway-mac>
```

History

Release version	History
7.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ipv6/import

Configures, modifies, or retrieves IPv6 routes.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/import	Imports IPv6 routes

Parameters

Name	Description
src-vrf	Specifies the VRF instance from which to leak routes to the default VRF
map	Specifies the map name to use for route-leaking match criteria

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/import
```

Request body

None

Response body

```
<import xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
y:self="/rest/config/running/rbridge-id/195/ipv6/import">
  <routes
y:self="/rest/config/running/rbridge-id/195/ipv6/import/routes/mgmt-vrf%2Cmap">
    <src-vrf>mgmt-vrf</src-vrf>
    <map>map</map>
  </routes>
</import>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ipv6/nd

Configures, modifies, or retrieves IPv6 Neighbor Discovery commands.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/nd	Configures Neighbor Discovery commands

Parameters

Name	Description
<i>time</i>	Specifies the time in seconds. The value can range from 1 through 5. The default time is 1 second

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/nd
```

Request body

None

Response body

```
<nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/rbridge-id/195/ipv6/nd">
  <dad y:self="/rest/config/running/rbridge-id/195/ipv6/nd/dad">
    <time>2</time>
  </dad>
</nd>
```

The following is an example of the POST operation to add the retransmit time interval.

URI

```
http://host:80/rest/config/running/rbridge-id/1/ipv6/nd/dad
```

Request body

```
<dad>
  <time>2</time>
</dad>
```

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Response body

None

The following is an example of the DELETE operation to remove the transmit time interval.

URI

`http://host:80/rest/config/running/rbridge-id/1/ipv6/nd/dad`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ipv6/prefix-list

Configures, modifies, or retrieves IPv6 address prefix list.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/prefix-list	Sets IPv6 address prefix list

Parameters

Name	Description
<i>name</i>	Specifies the prefixes list name. Ther values can be between 1 and 32 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (_) or minus signs (-)
<i>seq-keyword</i>	Specifies the "seq" keyword
<i>instance</i>	Specifies an IPv6 prefix list sequence number
<i>action-ipp</i>	Specifies the rules for transmission. The prefix list matches only on the specified ipv6-prefix/prefix-length unless you use the ge ge-value or le le-value parameters
<i>ipv6-prefix-ipp</i>	Configures IPv6 prefix
<i>le</i>	If you specify only le le-value, then the range is from le-value to the prefix length parameter

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/prefix-list
```

Request body

None

Response body

```
<prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ipv6/prefix-list/deny554%2Cseq%2C10"
>
  <name>deny554</name>
  <seq-keyword>seq</seq-keyword>
  <instance>10</instance>
  <action-ipp>permit</action-ipp>
```

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```
<ipv6-prefix-ipp>2001:5554:53::/48</ipv6-prefix-ipp>  
<le>64</le>  
</prefix-list>
```

The following is an example of the DELETE operation to remove the IPv6 prefix list configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/ipv6/prefix-list`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ipv6/protocol

Configures, modifies, or retrieves Internet Protocol version 6 (IPv6).

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/protocol	Configure Internet Protocol version 6 (IPv6)

Parameters

Name	Description
<i>vrp</i>	Enables IPv6 VRRPv3
<i>vrp-extended</i>	Enables IPv6 VRRP-Ev3

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/protocol
```

Request body

None

Response body

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-vrrpv3"
y:self="/rest/config/running/rbridge-id/195/ipv6/protocol">
  <vrp>true</vrp>
  <vrp-extended>true</vrp-extended>
</protocol>
```

The following is an example of the POST operation to add protocol configurations.

URI

```
http://host:80/rest/config/running/rbridge-id/1/ipv6/protocol
```

Request body

```
<protocol>
  <vrp>true</vrp>
  <vrp-extended>true</vrp-extended>
</protocol>
```

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Response body

None

The following is an example of the DELETE operation to disable VRRP.

URI

`http://host:80/rest/config/running/rbridge-id/1/ipv6/protocol/vrrp`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/ipv6/receive

Configures, modifies, or retrieves Internet Protocol version 6 (IPv6) receive access group.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/receive	Configure Internet Protocol version 6 (IPv6) receive access group

Parameters

Name	Description
ipv6-access-list	Specifies IPv6 receive access group
ip-direction	Specifies ingress direction

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/receive
```

Request body

None

Response body

```
<receive xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ipv6/receive">
  <access-group
y:self="/rest/config/running/rbridge-id/1/ipv6/receive/access-group">
    <ipv6-access-list>ipv6-receive-acl-example</ipv6-access-list>
    <ip-direction>in</ip-direction>
  </access-group>
</receive>
```

History

Release version	History
6.0.1a	The API call was introduced.

rbridge-id/{rbridge-number}/ipv6/route

Configures, modifies, or retrieves IPv6 unicast static route.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/route	Configures IPv6 unicast static route

Parameters

Name	Description
<i>bfd-ipv6-static-route-dest</i>	Configures the destination IPv6 address
<i>bfd-ipv6-static-route-src</i>	Configures the source IPv6 address
<i>interval</i>	Configures the transmit interval time
<i>min-rx</i>	Configures the receive interval time
<i>multiplier</i>	Configures the multiplier value
<i>static-route-dest</i>	Specifies the destination IPv6 prefix
<i>static-route-next-hop</i>	Configures the next hop IP address
<i>metric</i>	Specifies a value that the Layer 3 switch uses to compare this route to other static routes in the IPv6 static route table that have the same destination. The value can range from 1 through 16. The default value is 1
<i>distance</i>	Specifies an administrative distance. The value can range from 1 through 255. The default value is 1
<i>tag</i>	Specifies a tag value for the route. The value can range from 0 through 4294967295. The default value is 0
<i>static-route-oif-type</i>	Specifies the static route interface type
<i>InterfaceNumber</i>	Specifies the interface number
<i>link-local-static-route-dest</i>	Configures the destination link local static route IP address
<i>link-local-nexthop</i>	Configures the Link local next hop address
<i>link-local-route-oif-type</i>	Configures the Link local route interface type
<i>linklocalinterface</i>	Configures the Link local interface

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/195/ipv6/route

Request body

None

Response body

```
<route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ipv6/route">
  <static y:self="/rest/config/running/rbridge-id/1/ipv6/route/static">
    <bfd y:self="/rest/config/running/rbridge-id/1/ipv6/route/static/bfd">
      <bfd-ipv6-static-route
y:self="/rest/config/running/rbridge-id/1/ipv6/route/static/bfd/bfd-ipv6-static-
route/2001:284::24:23%2C2004:563::54:34">
        <bfd-ipv6-static-route-dest>2001:284::24:23</bfd-ipv6-static-route-dest>
        <bfd-ipv6-static-route-src>2004:563::54:34</bfd-ipv6-static-route-src>
        <interval>100</interval>
        <min-rx>75</min-rx>
        <multiplier>4</multiplier>
      </bfd-ipv6-static-route>
      <holdover-interval>5</holdover-interval>
    </bfd>
  </static>
  <static-route-nh
y:self="/rest/config/running/rbridge-id/195/ipv6/route/static-route-nh/%221700:5
4:1::/64%22%2C2001:2004::5401">
    <static-route-dest>1700:54:1::/64</static-route-dest>
    <static-route-next-hop>2001:2004::5401</static-route-next-hop>
  </static-route-nh>
  <static-route-nh
y:self="/rest/config/running/rbridge-id/195/ipv6/route/static-route-nh/%222001::
/16%22%2C2001:db:0:ee44::1">
    <static-route-dest>2001::/16</static-route-dest>
    <static-route-next-hop>2001:db:0:ee44::1</static-route-next-hop>
    <metric>3</metric>
    <distance>60</distance>
    <tag>67</tag>
  </static-route-nh>
  <static-route-oif
y:self="/rest/config/running/rbridge-id/195/ipv6/route/static-route-oif/%221700:
54::/64%22%2Ctengigabitethernet%2C%2254/0/9%22">
    <static-route-dest>1700:54::/64</static-route-dest>
    <static-route-oif-type>TenGigabitEthernet</static-route-oif-type>
    <InterfaceNumber>54/0/9</InterfaceNumber>
  </static-route-oif>
  <link-local-static-route-nh
y:self="/rest/config/running/rbridge-id/195/ipv6/route/link-local-static-route-n
h/%221900:54::3/128%22%2Cfe80::210:94ff:fe54:954%2Ctengigabitethernet%2C%2254/0/
9%22">
    <link-local-static-route-dest>1900:54::3/128</link-local-static-route-dest>
    <link-local-nexthop>fe80::210:94ff:fe54:954</link-local-nexthop>
    <link-local-route-oif-type>TenGigabitEthernet</link-local-route-oif-type>
    <linklocalinterface>54/0/9</linklocalinterface>
  </link-local-static-route-nh>
  <static-route-nh-vrf
y:self="/rest/config/running/rbridge-id/195/ipv6/route/static-route-nh-vrf/%2220
01::/16%22%2Cvrf1%2C2001::">
```

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```
<static-route-next-vrf-dest>2001::/16</static-route-next-vrf-dest>
<next-hop-vrf>vrf1</next-hop-vrf>
<static-route-next-hop>2001::</static-route-next-hop>
</static-route-nh-vrf>
</route>
```

The following is an example of the POST operation to add the BFD holdover interval.

URI

`http://host:80/rest/config/running/rbridge-id/1/ipv6/route/static/bfd`

Request body

```
<holdover-interval>20</holdover-interval>
```

Response body

None

The following is an example of the DELETE operation to remove the BFD holdover interval.

URI

`http://host:80/rest/config/running/rbridge-id/1/ipv6/route/static/bfd/holdover-interval`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the <i>bfd</i> feature commands under static.

rbridge-id/{rbridge-number}/ipv6/router

Configures, modifies, or retrieves IPv6 router.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/router	Configures IPv6 router

Parameters

Name	Description
<i>vrf</i>	Specifies the name of the VRF
<i>area-id</i>	Specifies the area address
<i>spi</i>	Specifies the Security Policy Index (SPI) value. The value can range from decimal numbers 512 through 4294967295
<i>ah</i>	Specifies authentication header (ah) as the protocol to provide packet-level security. Supported configurations are hmac-md5 and hmac-sha1 . Configuring hmac-md5 enables Hashed Message Authentication Code (HMAC) Message Digest 5 (MD5) authentication on the OSPF area. Configuring hmac-sha1 enables HMAC Secure Hash Algorithm 1 (SHA-1) authentication on the OSPF area
<i>no-encrypt</i>	The 40-character key is not encrypted upon either its entry or its display
<i>key</i>	Specifies the 40 hexadecimal character key
<i>reference-bandwidth</i>	Specifies reference bandwidth in Mbps. The value can range from 1 through 4294967
<i>database-overflow-interval</i>	Specifies the time interval at which the device checks to see if the overflow condition has been eliminated. The interval can range from 0 through 86400 seconds (24 hours). The default interval is 10 seconds
<i>always</i>	Always advertise default route
<i>metric</i>	Configures OSPF metric for default route
<i>metric-type</i>	Configures OSPF metric type for default route
<i>default-metric</i>	Specifies the OSPF routing protocol metric value. The value can range from 1 through 65535
<i>default-passive-interface</i>	Marks all OSPF and OSPFv3 interfaces passive by default
<i>route-type</i>	Specifies the route type. Supported types are external , inter-area and intra-area . Configuring external sets the distance for routes learned by redistribution from other routing domains. Configuring inter-area sets the distance for all routes from one area to another area. Configuring intra-area sets the distance for all routes within an area
<i>distance-value</i>	Specifies the administrative distance value assigned to OSPF routes. The value can range from 1 through 255. The default value is 110
<i>distribute-list-prefix-list-name</i>	Specifies the name of the prefix list

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Name	Description
<i>in</i>	Applies the prefix list to incoming routing updates on the specified interface
<i>external-lsdb-limit</i>	Specifies the maximum size of the external LSDB. The c value can range from 1 through 250000. The default value is 250000
<i>strict-lsa-checking</i>	Enables the OSPFv3 GR helper mode with strict link-state advertisement (LSA) checking
<i>key-add-remove-interval</i>	Specifies the add-remove interval in seconds. The value can range from 0 through 14400. The default interval is 300
<i>key-rollover-interval</i>	Specifies the key-rollover-interval in seconds. The value can range from 0 through 14400. The default value is 300
<i>log-status-change</i>	Enables log status change
<i>maximum-paths</i>	Specifies the maximum number of paths across which the device balances traffic to a given OSPF destination. The value can range from 1 through 32. The default value is 8
<i>metric-type</i>	Specifies the metric type. Supported types are type1 and type2 . Configuring type1 specifies the metric of a neighbor is the cost between itself and the router plus the cost of using this router for routing to the rest of the world. Configuring type2 specifies the metric of a neighbor is the total cost from the redistributing routing to the rest of the world
<i>nonstop-routing</i>	Enables nonstop-routing (NSR) for OSPFv3
<i>lsa-group-pacing</i>	Specifies the interval at which OSPFv3 LSAs are collected into a group and refreshed, check-summed, or aged by the OSPFv3 process. The value can range from from 10 to 1800 seconds. The default interval is 240 seconds
<i>static-route-dest</i>	Sets the destination IP address
<i>static-route-next-hop</i>	Sets the next hop ip address
<i>metric</i>	Specifies a value that the Layer 3 switch uses to compare this route to other static routes in the IPv6 static route table that have the same destination
<i>distance</i>	Specifies an administrative distance
<i>tag</i>	Specifies a tag value for the route.
<i>area-id</i>	Configures area address in dotted decimal or decimal format
<i>no-summary</i>	When configured on the NSSA area border router (ABR) this parameter prevents any Type 3 and Type 4 summary link-state advertisement (LSA) from being injected into the area
<i>log</i>	Enables logging for OSPFv3 activities. The available logging types are adjacency (Logs adjacency changes), all (Logs everything), bad-packet (Logs bad packets), database (Logs LSA activity) or retransmit (Logs retransmit activity)

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

NOTE

log-status-change is a deprecated command.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/195/ipv6/router

Request body

None

Response body

```
<router y:self="/rest/config/running/rbridge-id/195/ipv6/router">
  <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf">
    <vrf>default-vrf</vrf>
    <area
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/area/10
.25.26.24">
      <area-id>0.0.5.4</area-id>
      <stub
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/area/0.
0.5.4/stub">
        <no-summary>true</no-summary>
        <stub-area-metric>10</stub-area-metric>
        </stub>
        <authentication
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/area/10
.25.26.24/authentication">
          <spi>514</spi>
          <ah>hmac-md5</ah>
          <no-encrypt>true</no-encrypt>
          <key>key1</key>
        </authentication>
      </area>
      <auto-cost
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/auto-co
st">
        <reference-bandwidth>25</reference-bandwidth>
      </auto-cost>
      <database-overflow-interval>15</database-overflow-interval>
      <default-information-originate
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/default
-information-originate">
        <always>true</always>
        <metric>20</metric>
        <metric-type>type1</metric-type>
      </default-information-originate>
      <default-metric>25</default-metric>
      <default-passive-interface>true</default-passive-interface>
      <distance
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distan
ce/external">
        <route-type>external</route-type>
        <distance-value>5</distance-value>
      </distance>
      <distribute-list
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distrib
ute-list">
```

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```
        <route-map
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distrib
ute-list/route-map"/>
        <prefix-list
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distrib
ute-list/prefix-list">
<distribute-list-prefix-list-name>prefix</distribute-list-prefix-list-name>
        <in>true</in>
        </prefix-list>
    </distribute-list>
    <external-lsdb-limit>2500</external-lsdb-limit>
    <graceful-restart
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/gracefu
l-restart">
        <helper
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/gracefu
l-restart/helper">
            <strict-lsa-checking>true</strict-lsa-checking>
            </helper>
        </graceful-restart>
        <key-add-remove-interval>1000</key-add-remove-interval>
        <key-rollover-interval>350</key-rollover-interval>
        <log-status-change>true</log-status-change>
        <redistribute
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute">
            <connected
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute/connected">
                <metric-type>type1</metric-type>
            </connected>
            <static
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute/static">
                <route-map>route</route-map>
                <metric>550</metric>
            </static>
            <bgp
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute/bgp">
                <metric>500</metric>
            </bgp>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute/ospf">
                <route-map>route1</route-map>
                <metric>55</metric>
                <metric-type>type1</metric-type>
            </ospf>
        </redistribute>
        <timers
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/timers"
>
            <lsa-group-pacing>245</lsa-group-pacing>
            <spf
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/timers/
spf"/>
                </timers>
            <nonstop-routing>true</nonstop-routing>
```

```

    <max-metric xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/max-metric">
    <router-lsa
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/max-metric/router-lsa">
        <include-stub>true</include-stub>
    </router-lsa>
    </max-metric>
    <maximum-paths>7</maximum-paths>
    <log xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/log">
        <adjacency
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/log/adjacency">
            <dr-only>true</dr-only>
        </adjacency>
        <all>true</all>
        <bad-packet
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/log/bad-packet">
            <checksum>true</checksum>
        </bad-packet>
        <database>true</database>
        <retransmit>true</retransmit>
    </log>
    </ospf>
</router>

```

The following is an example of the DELETE operation to remove the area configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/area`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <code>log</code> under <code>ospf</code> and <code>include-stub</code> under <code>max-metric</code> .

rbridge-id/{rbridge-number}/linecard

Configures, modifies, or retrieves line card configurations for the specified slot.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/linecard	Configure line card for the specified slot

Parameters

Name	Description
<i>linecardName</i>	Configure the slot number
<i>linecardType</i>	The following line card types can be set: LC6X100G - 6X100G line card, LC12X40G - 12X40G line card, LC27X40G - 27X40G line card, LC36X10G - 36X10G line card, LC48X1G - 48X1G line card, LC48X10G - 48X10G line card, LC48X10GT - 48X10GT line card or LC72X1G - 72X1G line card

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/linecard
```

Request body

None

Response body

```
<linecard xmlns="urn:brocade.com:mgmt:brocade-linecard-management"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/linecard">
  <linecards y:self="/rest/config/running/rbridge-id/195/linecard/linecards/1">
    <linecardName>1</linecardName>
    <linecardType>LC48X10G</linecardType>
  </linecards>
  <linecards y:self="/rest/config/running/rbridge-id/195/linecard/linecards/2">
    <linecardName>2</linecardName>
    <linecardType>LC12X40G</linecardType>
  </linecards>
</linecard>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/logical-chassis

Configures, modifies, or retrieves logical chassis commands.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/logical-chassis	Logical chassis commands

Parameters

Name	Description
<i>principal-priority</i>	Specifies the priority for the switch. A lower number means a higher priority. The value can range from 1 through 128

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/logical-chassis
```

Request body

None

Response body

```
<logical-chassis xmlns="http://brocade.com/ns/brocade-logical-chassis"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/logical-chassis">
  <principal-priority>25</principal-priority>
</logical-chassis>
```

The following is an example of the POST operation to add the logical chassis priority value.

URI

```
http://host:80/rest/config/running/rbridge-id/1/logical-chassis
```

Request body

```
<principal-priority>25</principal-priority>
```

Response body

None

The following is an example of the DELETE operation to remove the logical chassis configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/logical-chassis`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/maps

Configures, modifies, or retrieves MAPS mode-related commands.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps	MAPS mode-related commands
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/email	Configures MAPS e-mail options
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/enable	Enables MAPS
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/group	Configures a user-defined logical group for either SFP or Ethernet ports for use in Monitoring and Alerting Priority Suite (MAPS).
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/policy	Configures user-defined policies for Monitoring and Alerting Priority Suite (MAPS)
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/relay	Configures relay IP mail settings
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/rule	Configures user-defined rules for Monitoring and Alerting Policy Suite (MAPS)

Parameters

Name	Description
<i>policy</i>	Specifies the policy name. Supported policies are dft_aggressive_policy , dft_moderate_policy , and dft_conservative_policy . Configuring dft_aggressive_policy contains rules with very strict thresholds, for environments requiring a pristine fabric. Configuring dft_moderate_policy contains rules with thresholds values that lie between the aggressive and conservative policies. Configuring dft_conservative_policy contains thresholds that are lenient enough to not trigger actions immediately and allows for buffer. This can be used in environments where the elements are resilient and can accommodate errors
<i>actions</i>	Defines which actions should be taken by the command policy. The action list names are: RASLOG, SNMP, EMAIL, FENCE, SW_CRITICAL, SW_MARGINAL, SFP_MARGINAL, and NONE
<i>email</i>	Specifies the destination e-mail address for MAPS notifications. Only five or fewer addresses can be configured
<i>polycyname</i>	Specifies the name of the user-defined policy
<i>logicalgroupname</i>	Specifies the name of the logical group
<i>type</i>	Defines which type of port is assigned to the members of the group. Supported configurations are sfp and interface . Configuring sfp sets the logical group as SFP ports. Configuring interface sets the logical group as Ethernet ports.
<i>members</i>	Defines the members of the group. Members are either Ethernet interfaces or SFPs, separated by commas
<i>hostip</i>	Specifies the destination relay for MAPS notifications

Name	Description
<i>domainname</i>	Specifies the destination domain name for MAPS notifications
<i>rulename</i>	Specifies the name for this user-defined rule
<i>group</i>	Specifies the name of the logical group of ports to which the rule is applied
<i>monitor</i>	Specifies the monitor name to which the rule is applied
<i>interval</i>	Defines how often the rule is executed. Possible configurations are none , min , hour , and day . Configuring none sets no interval and the rule is always applied. Configuring min sets the response to be triggered if the rule is broken once within the last 60 seconds. Configuring hour sets the response to be triggered if the rule is broken once within the last 60 minutes. Configuring day sets the response to be triggered if the rule is broken once within the last 24 hours
<i>op</i>	Defines the mathematical operator for the rule. Supported operations are gt , lt , ge , le , and eq . Configuring gt stands for the "greater than" symbol (>). Configuring lt stands for the "less than" symbol (<). Configuring ge stands for the "greater than or equal to" symbol (>=). Configuring le stands for the "less than or equal to" symbol (<=). Configuring eq stands for the "equals" symbol (=)
<i>value</i>	Configures the value at which the operator is triggered

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/1/maps
```

Request body

None

Response body

```
<maps xmlns="urn:brocade.com:mgmt:brocade-maps"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/maps">
  <enable y:self="/rest/config/running/rbridge-id/1/maps/enable">
    <policy>dflt_aggressive_policy</policy>
    <actions>RASLOG</actions>
  </enable>
  <email y:self="/rest/config/running/rbridge-id/1/maps/email">
    <email-list
y:self="/rest/config/running/rbridge-id/1/maps/email/email-list/abc@brocade.com"
>
      <email>abc@brocade.com</email>
    </email-list>
  </email>
  <policy xmlns="urn:brocade.com:mgmt:brocade-maps"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/maps/policy/policy1">
    <polycyname>policy1</polycyname>
```

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```
</policy>
  <group xmlns="urn:brocade.com:mgmt:brocade-maps"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/103/maps/group/group1">
  <logicalgroupname>group1</logicalgroupname>
  <type>interface</type>
  <members>103/4/10</members>
</group>
<relay y:self="/rest/config/running/rbridge-id/1/maps/relay/10.20.38.100">
  <hostip>10.20.38.100</hostip>
  <domainname>brocade.com</domainname>
</relay>
<rule xmlns="urn:brocade.com:mgmt:brocade-maps"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/maps/rule/rule1">
  <rulename>rule1</rulename>
  <group>group1</group>
  <monitor>SFP_TEMP</monitor>
  <interval>none</interval>
  <op>le</op>
  <value>10</value>
</rule>
</maps>
```

The following is an example of the POST operation to add an e-mail address.

URI

`http://host:80/rest/config/running/rbridge-id/1/maps/email`

Request body

```
<email-list>
  <email>admin@abc123.com</email>
</email-list>
```

Response body

None

The following is an example of the DELETE operation to remove an e-mail address.

URI

`http://host:80/rest/config/running/rbridge-id/1/maps/email/email-list`

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.
7.0.0	The API call was modified to include new URIs: <base_URI>/config/running/rbridge-id/{rbridge-number}/maps/group <base_URI>/config/running/rbridge-id/{rbridge-number}/maps/policy and <base_URI>/config/running/rbridge-id/{rbridge-number}/maps/rule

rbridge-id/{rbridge-number}/openflow

Configures, modifies, or retrieves the OpenFlow configuration.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/openflow	OpenFlow configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/openflow/logical-instance	OpenFlow logical instance configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/openflow/controller	Configures OpenFlow controller name
<base_URI>/config/running/rbridge-id/{rbridge-number}/openflow/passive	Passive controller connection

Parameters

Name	Description
<i>instance-id</i>	Specifies the logical instance number
<i>version-name</i>	Configures the OpenFlow version
<i>controller-name</i>	Specifies the already-created name of an OpenFlow controller
<i>passive-controller-flag</i>	Configures the Passive controller connection
<i>passive-controller-ip-address</i>	Specifies the controller address
<i>passive-controller-port</i>	Configures OpenFlow controller port number

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/1/openflow
```

Request body

None

Response body

```
<openflow xmlns="urn:brocade.com:mgmt:brocade-openflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/openflow">
  <logical-instance
y:self="/rest/config/running/rbridge-id/1/openflow/logical-instance">
    <instance-id>5</instance-id>
```

```

    <version>
      <version-name>ofv130</version-name>
    </version>
  </logical-instance>
  <controller y:self="/rest/config/running/rbridge-id/1/openflow/controller">
    </controller-name>opencont1</controller-name>
  </controller>
  <passive y:self="/rest/config/running/rbridge-id/1/openflow/passive">
    <no-ssl>
      <passive-controller-flag></passive-controller-flag>
      <passive-controller-ip-address>10.20.38.100</passive-controller-ip-address
    >
      <passive-controller-port>32</passive-controller-port>
    </no-ssl>
  </passive>
</openflow>

```

The following is an example of the PUT operation to configure the passive controller.

URI

```
http://host:80/rest/config/running/rbridge-id/1/openflow/logical-instance/1/passive/no-ssl
```

Request body

```

<no-ssl>
  <passive-controller-flag></passive-controller-flag>
  <passive-controller-ip-address>10.20.38.100</passive-controller-ip-address>
  <passive-controller-port>32</passive-controller-port>
</no-ssl>

```

Response body

None

The following is an example of the DELETE operation to delete the passive controller configuration.

URI

```
http://host:80/rest/config/running/rbridge-id/1/openflow/logical-instance/1/passive/no-ssl
```

Request body

None

Response body

None

History

Release version	History
6.0.1	The API call was introduced.

rbridge-id/{rbridge-number}/protocol

Configures, modifies, or retrieves protocol configuration.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/protocol	Protocol configuration

Parameters

Name	Description
vrrp	Enables Virtual Router Redundacy Protocol (VRRP)
vrrp-extended	Enables Virtual Router Redundacy Protocol Extended (VRRP-E)

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/54/protocol
```

Request body

None

Response body

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/protocol">
  <vrrp-extended xmlns="urn:brocade.com:mgmt:brocade-vrrp">true</vrrp-extended>
</protocol>
```

The following is an example of the POST operation to enable VRRP.

URI

```
http://host:80/rest/config/running/rbridge-id/6/protocol
```

Request body

```
<vrrp>true</vrrp>
```

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/qos

Configures, modifies, or retrieves RBridge-level QoS configuration.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/qos	Configure RBridge-level QoS configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/qos/tx-queue	Configure QoS ingress queueing
<base_URI>/config/running/rbridge-id/{rbridge-number}/qos/rcv-queue	Configure QoS ingress queueing

Parameters

Name	Description
<i>limit</i>	Specifies the upper limit of buffering for the port. The value can range from 128 KB through 8 MB. The default value is 285

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/54/qos
```

Request body

None

Response body

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/qos">
  <tx-queue y:self="/rest/config/running/rbridge-id/54/qos/tx-queue">
    <limit>300</limit>
  </tx-queue>
  <rcv-queue y:self="/rest/config/running/rbridge-id/54/qos/rcv-queue">
    <limit>230</limit>
  </rcv-queue>
</qos>
```


History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/route-map

Configures, modifies, or retrieves a route map instance.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/route-map	Configure a route map instance

Parameters

Name	Description
<i>name</i>	Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length
<i>action-rm</i>	Specifies the action. Supported actions are permit and deny . Configuring permit allows a matching pattern. Configuring deny disallows a matching pattern
<i>instance</i>	Specifies the instance ID. The value can range from 1 through 65535
<i>vrf</i>	Specifies the name of the VRF
<i>prefix-list</i>	Specifies a prefix list. Values range from 1 through 32 ASCII characters
<i>acl</i>	Configures the access list name
<i>extcommunity-num</i>	Specifies the extended community list number. The value can range from 1 through 99
<i>metric-rmm</i>	Specifies the route metric. The values can range from 0 through 4294967295
<i>route-type-rmm</i>	Specifies the route type. Supported types are internal , type-1 and type-2 . Configuring internal enables internal route type. Configuring type-1 enables OSPF external route type 1. Configuring type-2 enables OSPF external route type 2
<i>tag-rmm</i>	Specifies the tag value. The value can range from 0 through 4294967295
<i>as-path-access-list-name</i>	Specifies the name of an AS-path access list. The value can range from 1 through 32 ASCII characters
<i>community-access-list-name</i>	Specifies the name of a BGP community access list. The value can range from 1 through 32 ASCII characters
<i>bgp</i>	Matches BGP routes on protocol types
<i>bgp-route-type</i>	Specifies the match type. Supported types are external , internal and static-network . Configuring external matches EBGP routes. Configuring internal matches IBGP routes. Configuring static-network matches BGP static routes. This is applicable only for BGP outbound policy
<i>continue</i>	Use a "continue" clause to allow for more programmable policy configuration and route filtering, with capability to execute additional entries in a route map after an entry is executed with successful "match" and "set" clauses
<i>continue-val</i>	Specifies the sequence ID. The value can range from 1 through 65535
<i>next-hop</i>	Specifies the IP address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/route-map
```

Request body

None

Response body

```
<route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550">
  <name>route1</name>
  <action-rm>deny</action-rm>
  <instance>550</instance>
  <match
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match"
>
    <vrf>red</vrf>
    <interface
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
interface"/>
      <ipv6
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ipv6">
        <address
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ipv6/address"/>
          <prefix-list>prefix1</prefix-list>
          <acl>acl1</acl>
        </address>
        <next-hop
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ipv6/next-hop">
          <prefix-list>prefix2</prefix-list>
        </next-hop>
        <route-source
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ipv6/route-source">
          <prefix-list>prefix2</prefix-list>
        </route-source>
      </ipv6>
    </interface>
    <ip
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ip">
      <address
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ip/address">
        <prefix-list>prefix1</prefix-list>
        <acl>acl1</acl>
      </address>
```

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```
        <next-hop
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ip/next-hop">
        <prefix-list>prefix2</prefix-list>
        </next-hop>
        <route-source
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ip/route-source">
        <prefix-list>prefix 3</prefix-list>
        </route-source>
    </ip>
    <extcommunity
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
extcommunity">
        <extcommunity-num>2 </extcommunity-num>
    </extcommunity>
    <metric
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
metric">
        <metric-rmm>55500</metric-rmm>
    </metric>
    <route-type
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
route-type">
        <route-type-rmm>internal</route-type-rmm>
    </route-type>
    <tag
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
tag">
        <tag-rmm>5500</tag-rmm>
    </tag>
    <as-path
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
as-path">
        <as-path-access-list-name>acl6 </as-path-access-list-name>
    </as-path>
    <community
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
community">
        <community-access-list-name>acl10 exact-match</community-access-list-name>
    </community>
    <protocol
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
protocol">
        <bgp>true</bgp>
        <bgp-route-type>external</bgp-route-type>
    </protocol>
</match>
<continue>true</continue>
<continue-val>600</continue-val>
<name>route2</name>
<action-rm>permit</action-rm>
<instance>100</instance>
<set
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set">
    <ipv6
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ip
v6">
```

```

    <global
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ip
v6/global">
    <next-global-hop
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ip
v6/global/next-global-hop/2003:384d::22:24">
        <next-hop>2003:384d::22:24</next-hop>
    </next-global-hop>
    </global>
    <next-hop
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ip
v6/next-hop/2006:384d::21:22">
        <next-hop>2006:384d::21:22</next-hop>
    </next-hop>
    </ipv6>
    </set>
</route-map>

```

The following is an example of the POST operation to add the route map configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/openflow`

Request body

```

<route-map>
  <name>ROUTEMAP1</name>
  <action-rm>permit</action-rm>
  <instance>10</instance>
</route-map>

```

Response body

None

The following is an example of the DELETE operation to delete the remove the route map configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/route-map/ROUTEMAP%2Cpermit%2C10`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/route-map/match.

rbridge-id/{rbridge-number}/router

Configures, modifies, or retrieves router configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/router	Configure router
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp	Configures, modifies, or retrieves Border Gateway Protocol (BGP). Refer to rbridge-id/{rbridge-number}/router/bgp for information
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/pim	Configures the Protocol Independent Multicast (PIM) routing protocol. Refer to rbridge-id/{rbridge-number}/router/pim for information
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf	Configures, modifies, or retrieves OSPF. Refer to rbridge-id/{rbridge-number}/router/ospf for information

Parameters

Name	Description
vrf	Specifies the name of the VRF

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/122/router
```

Request body

None

Response body

```
<router xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router">
  <pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/rbridge-id/122/router/pim"></pim>
  <bgp xmlns="urn:brocade.com:mgmt:brocade-bgp"
y:self="/rest/config/running/rbridge-id/122/router/bgp/default">
    <vrf>default</vrf>
  </bgp>
```

```
<ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"  
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf">  
  <vrf>default-vrf</vrf>  
</ospf>  
</router>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/router/bgp

Configures, modifies, or retrieves Border Gateway Protocol (BGP) configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp	Border Gateway Protocol (BGP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn	Configures a routing session using Layer 2 Virtual Private Network (L2VPN) Ethernet Virtual Private Network (EVPN) endpoint provisioning address information.

Parameters

Name	Description
<i>local-as</i>	Specifies the local ASN. The value can range from 1 through 4294967295
<i>always-compare-med</i>	Enables the device to always compare the Multi-Exit Discriminators (MEDs)
<i>compare-med-empty-aspath</i>	Enables comparison of Multi-Exit Discriminators (MEDs) for internal routes
<i>med-missing-as-worst</i>	Considers routes missing MED attributes as least desirable
<i>as-path-ignore</i>	Disables the comparison of the autonomous system (AS) path lengths of otherwise equal paths
<i>compare-routerid</i>	Enables comparison of device IDs
<i>install-igp-cost</i>	Enables the device to use the IGP cost instead of the default BGP4 or BGP4+ Multi-Exit Discriminator (MED) value
<i>id</i>	Configures Route-Reflector Cluster-ID
<i>default-local-preference</i>	Specifies the local preference value. The value can range from 0 through 65535
<i>ext-route-distance</i>	Specifies the EBGP distance. The value can range from 1 through 255
<i>int-route-distance</i>	Specifies the IBGP distance. The value can range from 1 through 255
<i>lcl-route-distance</i>	Specifies the local BGP4 and BGP4+ distance. The value can range from 1 through 255
<i>as4-enable</i>	Enables 4-byte autonomous system number (ASN) capability
<i>ebgp-btsh</i>	Enables BGP time to live (TTL) security hack protection (BTSH) for eBGP.
<i>num-as-in-path</i>	Configures the number of autonomous systems in the AS-PATH attribute
<i>enforce-first-as</i>	Enforces the use of the first autonomous system (AS) path for external BGP (EBGP) routes
<i>fast-external-fallover</i>	Resets the session if a link to an EBGP peer goes down
<i>keep-alive</i>	Specifies the frequency in seconds with which a device sends keepalive messages to a peer. The value can range from 0 through 65535 seconds. The default value is 60 seconds

Name	Description
<i>hold-time</i>	Specifies the interval in seconds that a device waits to receive a keepalive message from a peer before declaring that peer dead. The value can range from 0 through 65535 seconds. The default value is 180 seconds
<i>log-dampening-debug</i>	Logs dampening debug messages
<i>identifier</i>	Specifies an autonomous system number (ASN). The value can range from 1 through 4294967295
<i>peers</i>	Specifies the autonomous system (AS) numbers for BGP peers that will belong to the confederation. The value can range from 1 through 4294967295
<i>holdover-interval</i>	Specifies the BFD holdover-time interval in seconds. The values can range from 1 through 30. The default value is 0
<i>min-tx</i>	Specifies the interval a device waits to send a control packet to BFD peers. The value can range from 50 through 30000 milliseconds. The default value is 200 milliseconds on Brocade VDX 8770 platforms
<i>min-rx</i>	Specifies the interval a device waits to receive a control packet from BFD peers. The value can range from 50 through 30000 milliseconds. The default value is 200 milliseconds on Brocade VDX 8770 platforms
<i>multiplier</i>	Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The values can range from 3 through 50. The default value is 3
<i>address</i>	Configures neighbor address
<i>bgp-redistribute-internal</i>	Enables BGP4 route redistribution
<i>redistribute-connected</i>	Redistributes directly connected routes
<i>metric</i>	Configures metric for redistributed routes
<i>redistribute-ospf</i>	Enables Open Shortest Path First (OSPF)
<i>redistribute-static</i>	Enables Static routes
<i>ebgp</i>	Specifies the number of EBGP paths. The value can range from 1 through 32. The default value is all
<i>ibgp</i>	Specifies the number of IBGP paths for load sharing. The value can range from 1 through 32. The default value is all
<i>use-load-sharing</i>	Uses the maximum IP ECMP path value
<i>always-propagate</i>	Configures the device to reflect BGP routes that are not installed in the RTM
<i>default-information-originate</i>	Sets the device to originate and advertise a default BGP4 or BGP4+ route
<i>rib-route-limit</i>	Configures limit BGP rib count in routing table
<i>half-time</i>	Specifies the number of minutes after which the route penalty becomes half its value. The value can range from 1 through 45 minutes. The default time is 15 minutes
<i>reuse-value</i>	Specifies the minimum penalty below which the route becomes usable again. The value can range from 1 through 20000. The default value is 750
<i>start-suppress-time</i>	Specifies the maximum penalty above which the route is suppressed by the device. The value can range from 1 through 20000. The default value is 2000
<i>max-suppress-time</i>	Specifies the maximum number of minutes a route can be suppressed by the device. The default value is 40

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Name	Description
<i>default-metric</i>	Specifies the metric value. The value can range from 0 through 4294967295. The default value is 1
<i>update-time</i>	Configures IGP route update interval
<i>metric</i>	Configures metric for redistributed routes
<i>route-map</i>	Route map reference
<i>bgp-redistribute-internal</i>	Allows redistribution of IBGP routes into IGP
<i>route-map</i>	Specifies the route map name
<i>aggregate-ip-prefix</i>	Specifies the IPv4 address
<i>network-ipv6-address</i>	Specifies the IPv6 address
<i>advertise-map</i>	Specifies a route map to be consulted
<i>as-set</i>	Sets the device to aggregate AS-path information
<i>attribute-map</i>	Specifies a route map to be consulted
<i>summary-only</i>	Prevents the device from advertising more-specific routes contained within the aggregate route
<i>suppress-map</i>	Specifies a route map to be consulted
<i>ibgp</i>	Configures the IBGP distance
<i>multi-as</i>	Enables load sharing of paths from different neighboring autonomous systems
<i>network-ipv4-address</i>	Configures the IP address
<i>weight</i>	Configures the weight to be added to routes in this network
<i>backdoor</i>	Changes administrative distance of the route to this network from the EBGp administrative distance
<i>allowas-in</i>	Disables the AS_PATH check function for routes learned from a specified neighbor location so that BGP does not reject routes that contain the recipient BGP speaker's AS number
<i>static-network-address</i>	Configures the static network address
<i>evpn</i>	Configures a routing session using Layer 2 Virtual Private Network (L2VPN) Ethernet Virtual Private Network (EVPN) endpoint provisioning address information
<i>auto-shutdown-new-neighbors</i>	Automatically shuts down new neighbors
<i>activate</i>	Allows exchange of routes in the current family mode
<i>additional-paths</i>	Enables the advertisement of additional paths for BGP neighbors. Possible configurations are receive and send . Configuring receive will enable the BGP to receive additional paths from BGP neighbors. Configuring send will enable the BGP to send additional paths to BGP neighbors.
<i>client-to-client-reflection</i>	Enables routes from one Route Reflector Client to other clients by the host device on which it is configured
<i>advertise</i>	Applies filters for the advertisement of additional paths for BGP neighbors. Possible configurations are all and best . Configuring all advertises all BGP additional paths with a unique next hop. Configuring best advertises the additional paths that the device selects as best paths. You can specify the number of best paths advertised. The value can range from 1 through 5
<i>all</i>	Configures a route reflector (RR) to accept all route targets (RTs)

Name	Description
<i>purge-time</i>	Specifies the maximum period of time, in seconds, for which a restarting device maintains stale routes in the BGP routing table before purging them. The default value is 600 seconds. The configurable range of values is from 1 to 3600 seconds
<i>restart-time</i>	Specifies the restart-time, in seconds, advertised to graceful restart-capable neighbors. The default value is 120 seconds. The configurable range of values is from 1 to 3600 seconds
<i>stale-routes-time</i>	Specifies the maximum period of time, in seconds, that a helper device will wait for an End of RIB (EOR) message from a peer. All stale paths are deleted when this time period expires. The default value is 360 seconds. The configurable range of values is from 1 to 3600 seconds.
<i>route-reflector-client</i>	Enables a neighbor to be a route-reflector client
<i>next-hop-unchanged</i>	Enables BGP to send updates to eBGP peers with the next-hop attribute unchanged

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/rbridge-id/122/router/bgp`

Request body

None

Response body

```
<bgp xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/bgp/default">
  <local-as>124</local-as>
  <always-compare-med>true</always-compare-med>
  <compare-med-empty-aspath>true</compare-med-empty-aspath>
  <med-missing-as-worst>true</med-missing-as-worst>
  <as-path-ignore>true</as-path-ignore>
  <compare-routerid>true</compare-routerid>
  <install-igp-cost>true</install-igp-cost>
  <cluster-id
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/cluster-id">
    <id>122</id>
  </cluster-id>
  <default-local-preference>100</default-local-preference>
  <distance
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/distance">
    <ext-route-distance>20</ext-route-distance>
    <int-route-distance>25</int-route-distance>
    <lcl-route-distance>22</lcl-route-distance>
  </distance>
  <capability
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/capability">
```

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```
        <as4-enable>true</as4-enable>
    </capability>
    <maxas-limit
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/maxas-limit">
    <in
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/maxas-limit/in">
        <num-as-in-path>250</num-as-in-path>
    </in>
    </maxas-limit>
    <enforce-first-as>true</enforce-first-as>
    <fast-external-fallover>true</fast-external-fallover>
    <timers
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/timers">
        <keep-alive>65</keep-alive>
        <hold-time>170</hold-time>
    </timers>
    <log-dampening-debug>true</log-dampening-debug>
    <auto-shutdown-new-neighbors>true</auto-shutdown-new-neighbors>
    <confederation
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/confederation">
        <identifier>20000</identifier>
        <peers>100 120 130 140 1200 2300 5600 40000</peers>
    </confederation>
    <bfd xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/bgp/bfd">
        <holdover-interval>10</holdover-interval>
        <interval xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/router/bgp/bfd/interval">
            <min-tx>75</min-tx>
            <min-rx>80</min-rx>
            <multiplier>3</multiplier>
        </interval>
    </bfd>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/neighbor/INTERNAL
">
        <address>INTERNAL</address>
    </neighbor>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/neighbor/PeerGroup1">
        <address>PeerGroup1</address>
    </neighbor>
    <neighbor xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor">
        <neighbor-peer-grp
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-peer-grp/peer1">
            <address>peer1</address>
            <bfd
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-peer-grp/peer1/bfd">
                <holdover-interval>10</holdover-interval>
                <interval xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-peer-grp/peer1/bfd/interval">
                    <min-tx>70</min-tx>
                    <min-rx>60</min-rx>
```

```

        <multiplier>10</multiplier>
    </interval>
</bfd>
</neighbor-peer-grp>
<neighbor-ipv6-addr
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-ipv6-addr
/2004:384d::21:22">
    <address>2004:384d::21:22</address>
    <bfd
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-ipv6-addr
/2004:384d::21:22/bfd">
        <holdover-interval>25</holdover-interval>
        <interval xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-ipv6-addr
/2004:384d::21:22/bfd/interval">
            <min-tx>60</min-tx>
            <min-rx>60</min-rx>
            <multiplier>40</multiplier>
        </interval>
    </bfd>
</neighbor-ipv6-addr>
<neighbor-addr xmlns="urn:brocade.com:mgmt:brocade-bgp"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-addr/1.1.
1.1">
    <address>1.1.1.1</address>
    <ebgp-btsh></ebgp-btsh>
    <bfd
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-addr/1.1.
1.1/bfd">
        <holdover-interval>20</holdover-interval>
        <interval xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-addr/1.1.
1.1/bfd/interval">
            <min-tx>5000</min-tx>
            <min-rx>3000</min-rx>
            <multiplier>4</multiplier>
        </interval>
    </bfd>
</neighbor-addr>
</neighbor>
<neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/neighbor/VCS_8192
">
    <address>VCS_8192</address>
</neighbor>
<address-family
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family">
    <ipv4
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4">
        <unicast
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast">
            <bgp- redistribute-internal>true</bgp- redistribute-internal>
            <redistribute
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute">
                <connected
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute/connected">

```

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```
        <redistribute-connected>true</redistribute-connected>
        <metric>23</metric>
        <route-map>routel</route-map>
    </connected>
    <ospf
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute/ospf">
        <redistribute-ospf>true</redistribute-ospf>
        <match
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute/ospf/match"/>
        <metric>26</metric>
    </ospf>
    <static
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute/static">
        <redistribute-static>true</redistribute-static>
        <metric>30</metric>
        <route-map>routel</route-map>
    </static>
</redistribute>
<aggregate-address
y:self="/rest/config/running/rbridge-id/54/router/bgp/default/address-family/ipv
4/unicast/aggregate-address/%2210.11.12.0/24%22">
        <aggregate-ip-prefix>10.11.12.0/24</aggregate-ip-prefix>
        <advertise-map>map2</advertise-map>
        <as-set>true</as-set>
        <attribute-map>map2</attribute-map>
        <summary-only>true</summary-only>
        <suppress-map>map1</suppress-map>
    </aggregate-address>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/neighbor/INTERNAL">
        <address>INTERNAL</address>
    </neighbor>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/neighbor/10.11.132.7">
        <address>10.11.132.7</address>
    </neighbor>
    <neighbor xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/bgp/address-family/ipv4/unica
st/neighbor">
        <af-ipv4-neighbor-address
y:self="/rest/config/running/rbridge-id/122/router/bgp/address-family/ipv4/unica
st/neighbor/af-ipv4-neighbor-address/1.1.1.1">
            <address>1.1.1.1</address>
            <activate>true</activate>
        </af-ipv4-neighbor-address>
    </neighbor>
    <neighbor xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/bgp/address-family/ipv4/unica
st/neighbor">
        <af-ipv4-neighbor-address xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/neighbor/af-ipv4-neighbor-address/10.10.10.1">
```

```

        <address>10.10.10.1</address>
        <route-reflector-client>true</route-reflector-client>
        <additional-paths
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/neighbor/af-ipv4-neighbor-address/10.10.10.1/additional-paths">
            <advertise
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/neighbor/af-ipv4-neighbor-address/10.10.10.1/additional-paths/advertise">
                <best>1</best>
            </advertise>
        </additional-paths>
        <capability
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/neighbor/af-ipv4-neighbor-address/10.10.10.1/capability">
            <additional-paths
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/neighbor/af-ipv4-neighbor-address/10.10.10.1/capability/additional-paths">
                <add-path-both>true</add-path-both>
                <receive>true</receive>
            </additional-paths>
        </capability>
        </af-ipv4-neighbor-address>
    </neighbor>
    <network
y:self="/rest/config/running/rbridge-id/54/router/bgp/default/address-family/ipv
4/unicast/network/%2210.11.12.0/24%22">
        <network-ipv4-address>10.11.12.0/24</network-ipv4-address>
        <weight>100</weight>
        <backdoor>true</backdoor>
        <route-map>map1</route-map>
    </network>
    <static-network
y:self="/rest/config/running/rbridge-id/54/router/bgp/default/address-family/ipv
4/unicast/static-network/%2210.10.12.0/24%22">
        <static-network-address>10.10.12.0/24</static-network-address>
        <distance>10</distance>
    </static-network>
    <maximum-paths
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/maximum-paths">
        <ebgp>2</ebgp>
        <ibgp>3</ibgp>
        <use-load-sharing>true</use-load-sharing>
    </maximum-paths>
    <multipath
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/multipath">
        <ibgp>true</ibgp>
        <multi-as>true</multi-as>
    </multipath>
    <always-propagate>true</always-propagate>
    <default-information-originate>true</default-information-originate>
    <rib-route-limit>2000</rib-route-limit>
    <dampening
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/dampening">
        <half-time>20</half-time>
        <reuse-value>755</reuse-value>
        <start-suppress-time>2100</start-suppress-time>
        <max-suppress-time>45</max-suppress-time>

```

4 Configuration APIs

```
        </dampening>
        <default-metric>1</default-metric>
        <table-map
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/table-map"/>
        <update-time>10</update-time>
        <graceful-restart
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/graceful-restart">
        <restart-time>250</restart-time>
        <purge-time>200</purge-time>
        <stale-routes-time>300</stale-routes-time>
        </graceful-restart>
        <vrf
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/vrf/red">
        <vrf-name>red</vrf-name>
        <redistribute
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/vrf/red/redistribute">
        <bgp
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/vrf/red/redistribute/bgp">
        <metric>250</metric>
        <route-map>map1</route-map>
        </bgp>
        </redistribute>
        </vrf>
        </unicast>
        </ipv4>
        <ipv6
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6">
        <unicast
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast">
        <bgp-redistribute-internal>true</bgp-redistribute-internal>
        <redistribute
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute">
        <connected
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute/connected">
        <redistribute-connected>true</redistribute-connected>
        <metric>23</metric>
        </connected>
        <ospf
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute/ospf">
        <redistribute-ospf>true</redistribute-ospf>
        <match
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute/ospf/match"/>
        <metric>34</metric>
        </ospf>
        <static
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute/static">
        <redistribute-static>true</redistribute-static>
        <metric>45</metric>
```



```

        <route-map>redist107_1</route-map>
    </static>
</redistribute>
    <aggregate-address
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/aggregate-address/%22fd80:122:122:122::/64%22">
    <aggregate-ip-prefix>fd80:122:122:122::/64</aggregate-ip-prefix>
    </aggregate-address>
    <network
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/network/%22131::1/128%22">
    <network-ipv6-address>131::1/128</network-ipv6-address>
    </network>
    <network
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/network/%22fd80:122:122:122:105:105:0:122/128%22">
    <network-ipv6-address>fd80:122:122:122:105:105:0:122/128</network-ipv6
-address>
    </network>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/neighbor/vcs_2122">
    <address>vcs_2122</address>
    </neighbor>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/neighbor/VCS_8192_rr">
    <address>VCS_8192_rr</address>
    </neighbor>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/neighbor/fd80:2001:2040::40">
    <address>fd80:2001:2040::40</address>
    </neighbor>
    <neighbor xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor">
    <af-ipv6-neighbor-address
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124">
    <address>2001:2018:8192::124</address>
    <send-community
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/send-community">
    </send-community>
    <capability
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/capability">
    <orf
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/capability/orf">
    <prefixlist
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/capability/orf/prefixlist
">
    </prefixlist>
    </orf>

```

4 Configuration APIs

```
        <additional-paths
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/capability/additional-pat
hs">
        </additional-paths>
    </capability>
    <additional-paths
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/additional-paths">
        <advertise
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/additional-paths/advertis
e">
            </advertise>
        </additional-paths>
        <allowas-in>3</allowas-in>
        <filter-list
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/filter-list">
            </filter-list>
            <maximum-prefix
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/maximum-prefix">
                </maximum-prefix>
                <default-originate
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/default-originate">
                    </default-originate>
                    <prefix-list
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/prefix-list">
                        </prefix-list>
                        <route-map
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/route-map">
                            <in
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/route-map/in">
                                </in>
                                <out
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/route-map/out">
                                    </out>
                                </route-map>
                            <unsuppress-map
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/neighbor/af-ipv6-neighbor-address/2001:2018:8192::124/unsuppress-map">
                                </unsuppress-map>
                            </af-ipv6-neighbor-address>
                        </neighbor>
                    <maximum-paths
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/maximum-paths">
                        <ebgp>2</ebgp>
                        <ibgp>2</ibgp>
                        <use-load-sharing>true</use-load-sharing>
                    </maximum-paths>
                    <multipath
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/multipath"/>
```

```

    <always-propagate>true</always-propagate>
    <default-information-originate>true</default-information-originate>
    <rib-route-limit>1000</rib-route-limit>
    <dampening
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/dampening">
    <half-time>30</half-time>
    <reuse-value>1100</reuse-value>
    <start-suppress-time>2100</start-suppress-time>
    <max-suppress-time>45</max-suppress-time>
    </dampening>
    <default-metric>2</default-metric>
    <table-map
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/table-map"/>
    <update-time>10</update-time>
    <graceful-restart
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/graceful-restart">
    <restart-time>1400</restart-time>
    <purge-time>1200</purge-time>
    <stale-routes-time>1600</stale-routes-time>
    </graceful-restart>
    <vrf
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/vrf/vrf1">
    <vrf-name>vrf1</vrf-name>
    <redistribute
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/vrf/vrf1/redistribute">
    <bgp
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/vrf/vrf1/redistribute/bgp">
    <metric>500</metric>
    <route-map>map2</route-map>
    </bgp>
    </redistribute>
    </vrf>
    </unicast>
    </ipv6>
    <l2vpn xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn">
    <evpn
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn/evpn">
    <client-to-client-reflection>true</client-to-client-reflection>
    <graceful-restart
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn/evpn/g
raceful-restart">
    <graceful-restart-status>true</graceful-restart-status>
    <restart-time>400</restart-time>
    <purge-time>300</purge-time>
    <stale-routes-time>450</stale-routes-time>
    </graceful-restart>
    <retain
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn/evpn/r
etain">
    <route-target
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn/evpn/r
etain/route-target">

```

4 Configuration APIs

```
        <all>true</all>
      </route-target>
    </retain>
  <neighbor
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn/evpn/n
ighbor">
    <next-hop-unchanged>true</next-hop-unchanged>
  </neighbor>
</evpn>
</l2vpn>
</address-family>
</bgp>
```

The following is an example of the PUT operation to enable EVPN configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn`

Request body

```
<l2vpn>
  <evpn></evpn>
</l2vpn>
```

Response body

None

The following is an example of the DELETE operation to remove EVPN configuration.

URI

`http://host:80/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

Release version	History
6.0.1	<p>The API call was modified to add the new URI <code><base_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp/vrf/{vrf-name}/bfd</code>.</p> <p>The API call was modified to include the parameters <i>metric</i> and <i>route-map</i> under <i>bgp</i>.</p> <p>The API call was modified to include the parameter <i>vrf-name</i> under <i>address-family/ipv4/unicast</i>.</p>
7.0.0	<p>The API call was modified to add the new URI: <code><base_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn</code>.</p> <p>The API call was modified to include the parameter <i>auto-shutdown-new-neighbors</i>.</p> <p>The API call was modified to include the parameter <i>activate</i> under <i>rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor</i>.</p> <p>The API call was modified to include the parameter <i>additional-paths</i> under <i>rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/capability</i>.</p> <p>The API call was modified to include the parameter <i>advertise</i> under <i>rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/additional-paths/advertise</i>.</p> <p>The API call was modified to include the parameter <i>route-reflector-client</i> under <i>rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor</i>.</p> <p>The API call was modified to include the parameter <i>allowas-in</i> under <i>rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor</i>.</p>

rbridge-id/{rbridge-number}/router/pim

Configures, modifies, or retrieves the Protocol Independent Multicast (PIM) routing protocol.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/pim	Configures, modifies, or retrieves the Protocol Independent Multicast (PIM) routing protocol

Parameters

Name	Description
<i>max-mcache</i>	Specifies the number of entries in the multicast cache. The value can range from 1 through 2048
<i>hello-interval</i>	Specifies the hello interval. The value can range from 10 through 3600 seconds. The default interval is 30 seconds
<i>nbr-timeout</i>	Specifies the interval value in seconds. The value can range from 35 through 12600 seconds. The default value is 105 seconds
<i>inactivity-timer</i>	Specifies the entry inactivity timer interval. The value can range from 60 through 3600 seconds. The default interval is 180 seconds
<i>message-interval</i>	Specifies the interval value in seconds. The value can range from 10 through 65535 seconds. The default interval is 60 seconds
<i>reset-tracking-bit</i>	Resets the tracking bit to zero
<i>spt-threshold</i>	Specifies the Shortest Path Tree (SPT) threshold. Supported configurations are infinity and <i>num</i> . Configuring infinity uses only the rendezvous point to send packets. Do not switch over to SPT. Configuring <i>num</i> specifies the rate (in kilobytes per second) that must be reached before switching to SPT. The values can range from 1 through 4294967295. The default value is 1
<i>rp-ip-addr</i>	Specifies the IP address of the RP router
<i>prefix-list</i>	Specifies the name of a prefix list defined by the ip prefix-list command. The values can range from 1 through 63 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (_), or minus signs (-)

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the PIM configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/122/router/pim
```

Request body

None

Response body

```
<pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/rbridge-id/122/router/pim">
  <max-mcache>2000</max-mcache>
  <hello-interval>35</hello-interval>
  <nbr-timeout>150</nbr-timeout>
  <inactivity-timer>185</inactivity-timer>
  <message-interval>65</message-interval>
  <reset-tracking-bit>true</reset-tracking-bit>
  <spt-threshold>infinity</spt-threshold>
  <rp-address
y:self="/rest/config/running/rbridge-id/122/router/pim/rp-address/10.25.0.255">
    <rp-ip-addr>10.25.0.255</rp-ip-addr>
    <prefix-list>preflist1</prefix-list>
  </rp-address>
</pim>
```

History

Release version	History
5.0.0	The API call was introduced.
7.0.0	The API call was modified to include the parameter <i>reset-tracking-bit</i> .

rbridge-id/{rbridge-number}/router/ospf

Configures, modifies, or retrieves Open Shortest Path First (OSPF) configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf/vrf/{vrf-name}	Open Shortest Path First (OSPF)

Parameters

Name	Description
<i>vrf</i>	Specifies the VRF name
<i>database-overflow-interval</i>	Specifies the time interval at which the device checks to see if the overflow condition has been eliminated. The value can range from 0 through 86400 seconds. The default value is 0
<i>vrf-lite-capability</i>	Disables the DN bit that is set when routes are redistributed from MPBGP to OSPF
<i>always</i>	Always advertises the default route. If the route table manager does not have a default route, the router advertises the route as pointing to itself
<i>metric</i>	Configures metric for default route
<i>metric-type</i>	Configures the metric type. Set Type 1 or Type 2
<i>route-map</i>	Specifies the name of a route map
<i>default-metric</i>	Specifies the OSPF routing protocol metric value. The value can range from 1 through 65535
<i>external-lsdb-limit</i>	Specifies the maximum size of the external LSDB. The maximum allowed value is 14913080
<i>all</i>	Logs all configurations
<i>neighbor-addr</i>	Specifies the IPv4 address of the neighbor
<i>area-id</i>	Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format
<i>ref-bandwidth</i>	Specifies the reference bandwidth in Mbps. The value can range from 1 through 4294967
<i>use-active-ports</i>	When set, any dynamic change in bandwidth immediately affects the cost of OSPF routes. This parameter enables cost calculation for currently active ports only
<i>route-type</i>	Sets the route-type. Supported configurations are external , inter-area , and intra-area . Configuring external sets the distance for routes learned by redistribution from other routing domains. Configuring inter-area sets the distance for all routes from one area to another area. Configuring intra-area sets the distance for all routes within an area
<i>IN</i>	Applies filter for incoming routes
<i>external-lsa-val</i>	Specifies the metric value. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFFFE). The default value is 16711680 (0x00FF0000)
<i>summary-lsa-val</i>	Specifies the summary metric value. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFFFE). The default value is 16711680 (0x00FF0000)

Name	Description
<i>ptp</i>	Advertises maximum metric in Router LSA for PTP links
<i>stub</i>	Advertises maximum metric in Router LSA for stub links
<i>transit</i>	Advertises maximum metric in Router LSA for transit links
<i>sum-address</i>	Specifies the IP address for the summary route representing all the redistributed routes in dotted decimal format
<i>sum-address-mask</i>	Specifies the IP mask for the summary route representing all the redistributed routes in dotted decimal format
<i>lsa-group-pacing</i>	Specifies the interval at which OSPF LSAs are collected into a group and refreshed, check-summed, or aged out by the OSPF process. The values can range from 10 through 1800 seconds. The default value is 240 seconds
<i>init-delay</i>	Specifies the initial SPF calculation delay. The values can range from 0 through 60000 milliseconds. The default value is 0 milliseconds
<i>hold-time</i>	Specifies the minimum hold time between two consecutive SPF calculations. The values can range from 0 through 60000 milliseconds. The default value is 5000 milliseconds
<i>max-hold-time</i>	Specifies the maximum wait time between two consecutive SPF calculations. The values can range from 0 through 60000 milliseconds. The default value is 10000 milliseconds
<i>graceful-restart-enable</i>	Enables the OSPF Graceful Restart (GR) capability
<i>helper-disable</i>	Disables the GR helper capability
<i>restart-time</i>	Specifies the maximum restart wait time, in seconds, advertised to neighbors. The value can range from 10 through 1800 seconds. The default value is 120 seconds
<i>maximum-paths</i>	Specifies the maximum number of paths across which the device balances traffic to a given OSPF destination. The value can range from 1 through 32. The default value is 8
<i>time</i>	Sets the time (in seconds) for which the specified links in Router LSAs are advertised
<i>external-lsa-val-onstartup</i>	Configures the external LSA value on startup
<i>summary-lsa-val-onstartup</i>	Configures the summary LSA value on startup
<i>nonstop-routing</i>	Enables nonstop-routing (NSR)
<i>bfd-enable</i>	Enables Bidirectional Forwarding Detection (BFD)
<i>holdover-interval</i>	Specifies the BFD holdover-time interval in seconds. The value can range from 1 through 20. The default value is 0

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the OSPF configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/122/router/ospf/vrf/default-vrf
```

Request body

None

Response body

```
<ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf">
  <vrf>default-vrf</vrf>
  <database-overflow-interval>1</database-overflow-interval>
  <vrf-lite-capability>true</vrf-lite-capability>
  <nonstop-routing>true</nonstop-routing>
  <default-information-originate
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/default-info
rmation-originate">
    <always>true</always>
    <metric>23</metric>
    <metric-type>type1</metric-type>
    <route-map>routel</route-map>
  </default-information-originate>
  <default-metric>11</default-metric>
  <external-lsdb-limit>14987</external-lsdb-limit>
  <log y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/log">
    <all>true</all>
  </log>
  <metric-type>type1</metric-type>
  <neighbor
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/neighbor/10.
12.34.87">
    <neighbor-addr>10.12.34.87</neighbor-addr>
  </neighbor>
  <redistribute
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute
">
    <connected
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute
/connected">
      <route-map>routel</route-map>
    </connected>
    <static
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute
/static">
      <route-map>routel</route-map>
    </static>
    <bgp
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute
/bgp">
      <route-map>routel</route-map>
    </bgp>
  </redistribute>
  <area
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/area/0.0.0.0
">
    <area-id>0.0.0.0</area-id>
  </area>
  <area
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/area/131">
    <area-id>131</area-id>
```

```

    <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ospf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/area/131/pre
fix-list">
    <prefix-list>prefixlist1</prefix-list>
    <in>true</in>
  </prefix-list>
</area>
<auto-cost
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/auto-cost">
  <reference-bandwidth
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/auto-cost/re
ference-bandwidth">
    <ref-bandwidth>110</ref-bandwidth>
    <use-active-ports>true</use-active-ports>
  </reference-bandwidth>
</auto-cost>
<distance
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distance/ext
ernal">
  <route-type>external</route-type>
</distance>
<distance
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distance/int
er-area">
  <route-type>inter-area</route-type>
</distance>
<distance
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distance/int
ra-area">
  <route-type>intra-area</route-type>
</distance>
<distribute-list
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distribute-l
ist">
  <route-map
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distribute-l
ist/route-map">
    <route-map>route1</route-map>
    <in>true</in>
  </route-map>
</distribute-list>
<max-metric
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric">
  <router-lsa
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/r
outer-lsa">
    <external-lsa
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/r
outer-lsa/external-lsa">
      <external-lsa-val>1234343</external-lsa-val>
    </external-lsa>
    <summary-lsa
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/r
outer-lsa/summary-lsa">
      <summary-lsa-val>1223324</summary-lsa-val>
    </summary-lsa>
    <link
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/r
outer-lsa/link">

```

4 Configuration APIs

```
        <ptp>true</ptp>
        <stub>true</stub>
        <transit>true</transit>
    </link>
    <on-startup
y:self="/rest/config/running/rbridge-id/54/router/ospf/default-vrf/max-metric/router-lsa/on-startup">
        <time>10</time>
        <external-lsa
y:self="/rest/config/running/rbridge-id/54/router/ospf/default-vrf/max-metric/router-lsa/on-startup/external-lsa">
            <external-lsa-val-onstartup>100</external-lsa-val-onstartup>
        </external-lsa>
        <summary-lsa
y:self="/rest/config/running/rbridge-id/54/router/ospf/default-vrf/max-metric/router-lsa/on-startup/summary-lsa">
            <summary-lsa-val-onstartup>199</summary-lsa-val-onstartup>
        </summary-lsa>
        <link
y:self="/rest/config/running/rbridge-id/54/router/ospf/default-vrf/max-metric/router-lsa/on-startup/link">
            <ptp>true</ptp>
            <stub>true</stub>
            <transit>true</transit>
        </link>
    </on-startup>
</router-lsa>
</max-metric>
<summary-address
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/summary-address/10.1.1.0%2C255.255.0.0">
    <sum-address>10.1.0.0</sum-address>
    <sum-address-mask>255.255.0.0</sum-address-mask>
</summary-address>
<timers
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/timers">
    <lsa-group-pacing>250</lsa-group-pacing>
    <throttle
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/timers/throttle">
        <spf
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/timers/throttle/spf">
            <init-delay>23</init-delay>
            <hold-time>5500</hold-time>
            <max-hold-time>11000</max-hold-time>
        </spf>
    </throttle>
</timers>
<graceful-restart
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/graceful-restart">
    <graceful-restart-enable>true</graceful-restart-enable>
    <helper-disable>true</helper-disable>
    <restart-time>125</restart-time>
</graceful-restart>
    <bfd xmlns="urn:brocade.com:mgmt:brocade-ospf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/router/ospf/default-vrf/bfd">
        <bfd-enable>true</bfd-enable>
```

```

    <holdover-interval>10</holdover-interval>
  </bfd>
  <maximum-paths>7</maximum-paths>
</ospf>

```

The following is an example of the POST operation to add a prefix-list to router OSPF area configuration.

URI

```

http://host:80/rest/config/running/rbridge-id/1/router/ospf/default-vrf/area/1/p
refix-list

```

Request body

```

<prefix-list>prefixlist1</prefix-list>

```

Response body

None

The following is an example of the DELETE operation to remove the prefix-list configuration.

URI

```

http://host:80/rest/config/running/rbridge-id/1/router/ospf/default-vrf/area/1/p
refix-list

```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI: <base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf/vrf/{vrf-name}/bfd.
7.0.0	The API call was modified to include the new URI: <base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf/area/{area-id}/prefix-list.

rbridge-id/{rbridge-number}/secpolicy

Configures, modifies, or retrieves security policy-related configuration.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/secpolicy	Security policy-related configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/secpolicy/defined-policy	Defined policy set
<base_URI>/config/running/rbridge-id/{rbridge-number}/secpolicy/active-policy	Active policy set

Parameters

Name	Description
<i>policy</i>	Specifies the policy name
<i>member</i>	Specifies the device WWN to be added to the SCC defined policy set

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/54/secpolicy
```

Request body

None

Response body

```
<secpolicy xmlns="urn:brocade.com:mgmt:brocade-fc-auth"
y:self="/rest/config/running/rbridge-id/54/secpolicy">
  <defined-policy
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy">
    <policies
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY">
      <policy>SCC_POLICY</policy>
      <member-entry
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY/member-entry/10:00:00:05:1e:00:69:01">
        <member>10:00:00:05:1e:00:69:01</member>
      </member-entry>
```

```
    <member-entry
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY/member-entry/2f:00:00:05:1e:80:31:4f">
    <member>2f:00:00:05:1e:80:31:4f</member>
</member-entry>
    <member-entry
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY/member-entry/10:00:00:05:1E:CD:52:6A">
    <member>10:00:00:05:1E:CD:52:6A</member>
</member-entry>
    <member-entry
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY/member-entry/10:00:00:05:33:65:2B:4C">
    <member>10:00:00:05:33:65:2B:4C</member>
</member-entry>
</policies>
</defined-policy>
<active-policy
y:self="/rest/config/running/rbridge-id/54/secpolicy/active-policy"/>
</secpolicy>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/snmp-server

Configures, modifies, or retrieves SNMP server configuration.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/snmp-server	SNMP server configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/snmp-server/engineID	Holds local agents Engine ID
<base_URI>/config/running/rbridge-id/{rbridge-number}/snmp-server/offline-if	Allows SNMP to display offline interfaces when linecard is powered-off
<base_URI>/config/running/rbridge-id/{rbridge-number}/snmp-server/v3host	Holds parameters used to send V3 traps and informs

Parameters

Name	Description
<i>local</i>	Specifies the engine ID
<i>hostip</i>	Configures the host IP
<i>username</i>	Specifies the name of the user that connects to the agent. The name can be between 1 and 16 characters long
<i>udp-port</i>	Specifies the UDP port of the host. The value can range from 0 through 65535. The default UDP port number is 162
<i>severity-level</i>	Provides the ability to filter traps based on severity level on both the host and the SNMPv3 host. The supported severity levels are none , debug , info , warning , error , and critical

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/1/snmp-server
```

Request body

None

Response body

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/snmp-server">
  <engineID y:self="/rest/config/running/rbridge-id/1/snmp-server/engineID">
```



```

    <local>10:20:30:40:50:60:70:80:90:10:30:12</local>
  </engineID>
  <v3host
y:self="/rest/config/running/rbridge-id/1/snmp-server/v3host/1.1.1.1%2Ctestuser1
">
    <hostip>1.1.1.1</hostip>
    <username>testuser1</username>
    <udp-port>4425</udp-port>
    <severity-level>Info</severity-level>
    <use-vrf>mgmt-vrf</use-vrf>
  </v3host>
  <offline-if xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/snmp-server/offline-if">
    <enable>true</enable>
  </offline-if>
</snmp-server>

```

History

Release version	History
5.0.0	The API call was introduced.
5.0.1a	The API call was modified to include the parameter <i>v3host</i> .
6.0.1	The API call was modified to include the parameter <i>use-vrf</i> .
7.0.0	The API call was modified to include the parameter offline-if enable .

rbridge-id/{rbridge-number}/ssh

Configures, modifies, or retrieves SSH server configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ssh	Configure SSH server
<base_URI>/config/running/rbridge-id/{rbridge-number}/ssh/server	Configure SSH server
<base_URI>/config/running/rbridge-id/{rbridge-number}/ssh/client	Configure SSH client

Parameters

Name	Description
<i>key-exchange</i>	Specifies the key-exchange algorithm
<i>rekey-interval</i>	Specifies the value for the rekey interval. The value can range from 900 to 3600 seconds
<i>shutdown</i>	Disables SSH service on the switch
<i>protocol</i>	Configures the protocol type
<i>cipher</i>	Specifies the name of the cipher
<i>mac</i>	Specifies the name of the default MAC required. The supported MAC types are hmacmd5 , hmac-sha1 , hmac-sha2-256 , and hmac-sha2-512 . The default MACs supported in FIPS mode are hmac-sha1 , hmac-sha2-256 , and hmac-sha2-512
<i>standby</i>	Enables the SSH services on the standby MM
<i>rsa</i>	Specifies the RSA algorithm type
<i>ecdsa</i>	Specifies the ECDSA algorithm value
<i>dsa</i>	Enables DSA algorithm type

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/ssh
```

Request body

None

Response body

```

<ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ssh">
  <server y:self="/rest/config/running/rbridge-id/1/ssh/server">
    <key-exchange
y:self="/rest/config/running/rbridge-id/1/ssh/server/key-exchange/dh-group-14">
      <protocol>dh-group-14</protocol>
    </key-exchange>
    <rekey-interval>960</rekey-interval>
    <cipher>non-cbc</cipher>
    <mac>hmac-sha1</mac>
    <standby y:self="/rest/config/running/rbridge-id/1/ssh/server/standby">
      <enable>true</enable>
    </standby>
    <key y:self="/rest/config/running/rbridge-id/1/ssh/server/key">
      <rsa>1024</rsa>
      <ecdsa>256</ecdsa>
      <dsa>true</dsa>
    </key>
  </server>
  <client y:self="/rest/config/running/rbridge-id/1/ssh/client">
    <cipher>non-cbc</cipher>
    <mac>hmac-sha1-96</mac>
    <key-exchange>dh-group-14</key-exchange>
  </client>
</ssh>

```

History

Release version	History
5.0.0	The API call was introduced.
5.0.1a	The API call was modified to include the parameters <i>cipher</i> , <i>standby</i> , and <i>client</i> .
6.0.0	The API call was modified to include the parameters <i>rsa</i> , <i>ecdsa</i> , and <i>dsa</i> .
6.0.1	The API call was modified to include the parameters <i>cipher</i> and <i>mac</i> under <i>server</i> and <i>client</i> .

rbridge-id/{rbridge-number}/switch-attributes

Configures, modifies, or retrieves switch attributes configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/switch-attributes	Switch attributes configurations

Parameters

Name	Description
chassis-name	Specifies the switch chassis name. The string can be range from 1 through 30 ASCII characters in length, and the leading character must be a letter
host-name	Specifies the switch host name. The string can range from 1 through 30 ASCII characters in length, and the leading character must be a letter

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the switch-attributes configuration details.

URI

http://host:80/rest/config/running/rbridge-id/195/switch-attributes

Request body

None

Response body

```
<switch-attributes xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/switch-attributes">
  <chassis-name>VDX8770-4</chassis-name>
  <host-name>sw0</host-name>
</switch-attributes>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/system-mode

Enables maintenance mode for graceful traffic diversion on ISL ports and disabling all edge ports during debugging or firmware upgrades.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-mode	Enables maintenance mode

Parameters

Name	Description
<i>maintenance</i>	Enables maintenance mode

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the system mode configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/system-mode
```

Request body

None

Response body

```
<system-mode xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/103/system-mode">
  <maintenance>true</maintenance>
</system-mode>
```

History

Release version	History
7.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/system-monitor

Configures, modifies, or retrieves FRU threshold and alert setting.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor	FRU threshold and alert setting
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/fan	Configure threshold and alert setting for component: FAN
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/power	Configure threshold and alert setting for component: POWER SUPPLY
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/temp	Configure threshold and alert setting for component: TEMPERATURE SENSOR
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/cid-card	Configure threshold and alert setting for component: CIS-CARD
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/sfp	Configure threshold and alert setting for component: SFP
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/compact-flash	Configure threshold component: COMPACT-FLASH
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/mm	Configure threshold setting for component: MM
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/linecard	Configure threshold and alert setting for component: LINECARD
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/sfm	Configure threshold setting for component: SFM

Parameters

Name	Description
<i>action</i>	Specifies the response type. Supported types are all , email , none and raslog . Configuring all specifies that e-mail and RASLog messaging are used. Configuring email specifies that an e-mail message is sent. Configuring none specifies that no message is sent. Configuring raslog specifies RASLog messaging
<i>state</i>	Specifies the hardware state to be monitored. Supported states are all , faulty , inserted , none , on and removed . Configuring all specifies that all hardware states are monitored. Configuring faulty specifies that hardware is monitored for faults. Configuring inserted specifies that the insertion state of hardware is monitored. Configuring none specifies that no hardware states are monitored. Configuring on specifies that the hardware on/off state is monitored. Configuring removed specifies that the removal of hardware is monitored
<i>down-threshold</i>	Specifies an integer value that, when exceeded, indicates when hardware is down
<i>marginal-threshold</i>	Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/system-monitor
```

Request body

None

Response body

```
<system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/system-monitor">
  <fan y:self="/rest/config/running/rbridge-id/195/system-monitor/fan">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/fan/threshold">
      <marginal-threshold>1</marginal-threshold>
      <down-threshold>2</down-threshold>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/fan/alert">
      <state>removed</state>
      <action>raslog</action>
    </alert>
  </fan>
  <power y:self="/rest/config/running/rbridge-id/195/system-monitor/power">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/power/threshold">
      <marginal-threshold>3</marginal-threshold>
      <down-threshold>4</down-threshold>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/power/alert">
      <state>removed</state>
      <action>raslog</action>
    </alert>
  </power>
  <temp y:self="/rest/config/running/rbridge-id/195/system-monitor/temp">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/temp/threshold">
      <marginal-threshold>1</marginal-threshold>
      <down-threshold>2</down-threshold>
    </threshold>
  </temp>
  <cid-card
y:self="/rest/config/running/rbridge-id/195/system-monitor/cid-card">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/cid-card/threshold">
      <marginal-threshold>1</marginal-threshold>
      <down-threshold>0</down-threshold>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/cid-card/alert">
      <state>removed</state>
```

```

        <action>raslog</action>
    </alert>
</cid-card>
<sfp y:self="/rest/config/running/rbridge-id/195/system-monitor/sfp">
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/sfp/alert">
        <state>none</state>
        <action>none</action>
    </alert>
</sfp>
<compact-flash
y:self="/rest/config/running/rbridge-id/195/system-monitor/compact-flash">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/compact-flash/thresho
ld">
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
    </threshold>
</compact-flash>
<MM y:self="/rest/config/running/rbridge-id/195/system-monitor/MM">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/MM/threshold">
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
    </threshold>
</MM>
<LineCard
y:self="/rest/config/running/rbridge-id/195/system-monitor/LineCard">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/LineCard/threshold">
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/LineCard/alert">
        <state>removed</state>
        <action>raslog</action>
    </alert>
</LineCard>
<SFM y:self="/rest/config/running/rbridge-id/195/system-monitor/SFM">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/SFM/threshold">
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
    </threshold>
</SFM>
</system-monitor>

```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/telnet

Configures, modifies, or retrieves the Telnet server.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/telnet	Configure Telnet server
<base_URI>/config/running/rbridge-id/{rbridge-number}/telnet/server	Configure Telnet server

Parameters

Name	Description
shutdown	Disables Telnet service on the switch
enable	Enables the Telnet services on the standby MM

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/telnet
```

Request body

None

Response body

```
<telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/telnet">
  <server y:self="/rest/config/running/rbridge-id/195/telnet/server">
    <shutdown>true</shutdown>
    <standby y:self="/rest/config/running/rbridge-id/1/telnet/server/standby">
      <enable>true</enable>
    </standby>
  </server>
</telnet>
```

4 Configuration APIs

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the parameter <i>enable</i> .

rbridge-id/{rbridge-number}/threshold-monitor

Configures, modifies, or retrieves class-monitoring threshold and alert setting.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor	Configure class-monitoring threshold and alert setting
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/sfp	Monitor SFP class
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/security	Monitor security class
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/cpu	Configure setting for component: CPU
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/memory	Configure setting for component: MEMORY
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/interface	Monitor interface class

Parameters

Name	Description
<i>actions</i>	Specifies the action to be taken when a threshold is exceeded. Supported configurations are none and raslog . Configuring none enables no action is taken. Configuring raslog specifies RASLog messaging
<i>limit</i>	Specifies the baseline memory usage limit as a percentage of available resources. The value can range from 0 through 80 percent. The default value is 60 percent
<i>poll</i>	Specifies the polling interval in seconds. The value can range from 0 through 3600. The default value is 120
<i>retry</i>	Specifies the number of polling retries before desired action is taken. The value can range from 1 through 100. The default value is 3
<i>high-limit</i>	Specifies an upper limit for memory usage as a percentage of available memory. The value can range from 0 through 80 percent. The default value is 70 percent
<i>limit</i>	Specifies the baseline CPU usage limit as a percentage of available resources. The value can range from 0 through 80 percent. The default value is 70 percent
<i>low-limit</i>	Specifies a lower limit for memory usage as percentage of available memory. The default value is 40 percent
<i>apply</i>	Applies configuration
<i>pause</i>	Pauses monitoring of port statistics
<i>policy_name</i>	Only custom policy can be configured
<i>type</i>	Configures the speed type Ethernet interfaces

Name	Description
<i>area</i>	The possible area completions are CRCAlignErrors (Frames received with CRC and/or Align Errors), IFG (Number of times Inter Frame Gap was violated) or MissingTerminationCharacter (Frames that terminated by anything other than the Terminate character) or SymbolErrors (Number of words received as unknown symbol)
<i>buffer</i>	Configures the buffer threshold value
<i>high-threshold</i>	Configures the high threshold value
<i>low-threshold</i>	Configures the low threshold value
<i>timebase</i>	Configure timebase for monitoring
<i>highthresh-action</i>	Sets a high threshold action
<i>lowthresh-action</i>	Sets a low threshold action
<i>area</i>	Sets the security area as login-violation (Security Area login violation) or telnet-violation (Security Area telnet violation)
<i>type</i>	Sets the sfp type as 1GLR - SFP type 1GLR, 1GSR - SFP type 1GSR, 10GLR - SFP type 10GLR, 10GSR - SFP type 10GSR, 10GUSR - SFP type 10GUSR, 100GSR - SFP type 100GSR or QSFP - SFP type QSFP
<i>area</i>	Sets the sfp area as Current (SFP Area Current), RXP (SFP Area RXP), TXP (SFP Area TXP), Temperature (SFP Area Temperature) or Voltage (SFP Area Voltage)

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/rbridge-id/195/threshold-monitor`

Request body

None

Response body

```
<threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/threshold-monitor">
  <sfp y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp">
    <apply>custom</apply>
    <pause>true</pause>
    <policy
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom"
>
      <policy_name>custom</policy_name>
      <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/" />
```

```

        <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent">
    <type>1GLR</type>
    <area>Current</area>
    <threshold
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent/threshold">
    <high-threshold>45</high-threshold>
    <low-threshold>1</low-threshold>
    <buffer>0</buffer>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent/alert">
    <above
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent/alert/above">
    <highthresh-action>email</highthresh-action>
    </above>
    <below
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent/alert/below">
    <highthresh-action>none</highthresh-action>
    <lowthresh-action>raslog</lowthresh-action>
    </below>
    </alert>
    </area>
    </policy>
</sfp>
<security
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security">
    <apply>custom</apply>
    <pause>true</pause>
    <policy
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom">
    <sec_policy_name>custom</sec_policy_name>
    <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/" />
    <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation">
    <area>login-violation</area>
    <timebase>minute</timebase>
    <threshold
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation/threshold">
    <high-threshold>2</high-threshold>
    <low-threshold>1</low-threshold>
    <buffer>0</buffer>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation/alert">
    <above
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation/alert/above">
    <highthresh-action>all</highthresh-action>

```

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```
        </above>
        <below
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation/alert/below">
        <highthresh-action>none</highthresh-action>
        <lowthresh-action>none</lowthresh-action>
        </below>
        </alert>
    </area>
</policy>
</security>
<Cpu y:self="/rest/config/running/rbridge-id/195/threshold-monitor/Cpu">
    <poll>125</poll>
    <retry>5</retry>
    <limit>50</limit>
</Cpu>
<Memory y:self="/rest/config/running/rbridge-id/195/threshold-monitor/Memory">
    <poll>125</poll>
    <retry>4</retry>
    <limit>40</limit>
    <high-limit>45</high-limit>
    <low-limit>35</low-limit>
</Memory>
<interface
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface">
    <apply>custom</apply>
    <pause>true</pause>
    <policy
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom">
        <policy_name>custom</policy_name>
        <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/" />
            <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors">
                <type>Ethernet</type>
                <area>SymbolErrors</area>
                <threshold
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors/threshold">
                    <timebase>minute</timebase>
                    <high-threshold>5</high-threshold>
                    <low-threshold>0</low-threshold>
                    <buffer>0</buffer>
                </threshold>
                <alert
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors/alert">
                    <above
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors/alert/above">
                        <highthresh-action>all</highthresh-action>
                        <lowthresh-action>email</lowthresh-action>
                    </above>
                    <below
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors/alert/below">
                        <highthresh-action>none</highthresh-action>
```

```
        <lowthresh-action>none</lowthresh-action>
      </below>
    </alert>
  </area>
</policy>
</interface>
</threshold-monitor>
```

History

Release version	History
5.0.0	The API call was introduced.

rbridge-id/{rbridge-number}/vrf

Configures, modifies, or retrieves VRF configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/vrf	VRF configurations
<base_URI>/config/running/rbridge-id/{rbridge-number}/vrf/{vrf-name}/address-family	Enter address family command mode
<base_URI>/config/running/rbridge-id/{rbridge-number}/vrf/{vrf-name}/ip	VRF-specific IP commands

Parameters

Name	Description
<i>vrf-name</i>	Specifies the VRF name
<i>rd</i>	Specifies the ASN number
<i>arp-ip-address</i>	Specifies a valid IP address
<i>mac-address-value</i>	Specifies a valid MAC address
<i>interfacename</i>	Represents a valid, physical Ethernet subtype for all available Ethernet speeds
<i>src-vrf</i>	Specifies the VRF instance from which to leak routes to the VRF you are configuring
<i>map</i>	Specifies the name of route map to use for route-leaking match criteria. The value can range from 1 through 63 ASCII characters
<i>max-route</i>	Specifies the maximum number of routes
<i>static-route-dest</i>	Configures the destination IP address
<i>static-route-next-hop</i>	Configures the next hop IP Address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rbridge-id/195/vrf
```

Request body

None

Response body

```

<vrf xmlns="urn:brocade.com:mgmt:brocade-vrf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf">
  <vrf-name>mgmt-vrf</vrf-name>
  <rd>1:2</rd>
  <address-family
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family">
    <ipv4
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4">
      <unicast
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast">
        <max-route>129</max-route>
        <ip xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/ip">
          <route
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/ip/route">
            <static-route-nh
y:self="/rest/config/running/rbridge-id/54/vrf/mgmt-vrf/address-family/ipv4/unic
ast/ip/route/static-route-nh/%220.0.0.0/0%22%2C10.20.232.1">
              <static-route-dest>0.0.0.0/0</static-route-dest>
              <static-route-next-hop>10.20.232.1</static-route-next-hop>
            </static-route-nh>
          </route>
          <import
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/ip/import">
            <routes
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/ip/import/routes/mgmt-vrf%2Cmap1">
              <src-vrf>mgmt-vrf</src-vrf>
              <map>map1</map>
            </routes>
          </import>
        </ip>
        <arp xmlns="urn:brocade.com:mgmt:brocade-arp"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/arp/10.25.24.27">
          <arp-ip-address>10.25.24.27</arp-ip-address>
          <mac-address-value>0011.2222.2233</mac-address-value>
          <interfacename>interface</interfacename>
          <FortyGigabitEthernet>195/2/2</FortyGigabitEthernet>
        </arp>
      </unicast>
    </ipv4>
  </address-family>
  <ipv6
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6">
    <unicast
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/uni
cast">
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/uni
cast/ipv6">
        <route
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/uni
cast/ipv6/route"/>

```

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```
        <import
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/uni
cast/ipv6/import"/>
        </ipv6>
        </unicast>
    </ipv6>
</address-family>
<ip y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/ip">
    <router-id>1.1.1.1</router-id>
</ip>
<ip y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/ipv6">
    <router-id>1.2.1.1</router-id>
</ipv6>
</vrf>
```

The following is an example of the POST operation to add a VRF.

URI

`http://host:80/rest/config/running/rbridge-id/6/`

Request body

```
<vrf>
  <vrf-name>123</vrf-name>
</vrf>
```

Response body

None

The following is an example of the DELETE operation to remove a VRF.

URI

`http://host:80/rest/config/running/rbridge-id/6/vrf/123`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

reserved-vlan

Configures, modifies, or retrieves the range of VLANs used for internal purposes.

Resource URIs

URI	Description
<base_URI>/config/running/reserved-vlan	Sets the range of VLANs used for internal purposes

Parameters

Name	Description
<i>reserved-vlan-start</i>	Specifies the start of range for reserved VLANs. The value can range from 1 through 4090
<i>reserved-vlan-end</i>	Specifies the end of range for reserved VLANs. The value can range from 1 through 4090

Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/reserved-vlan
```

Request body

None

Response body

```
<reserved-vlan xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/reserved-vlan">
  <reserved-vlan-start>20</reserved-vlan-start>
  <reserved-vlan-end>40</reserved-vlan-end>
</reserved-vlan>
```

The following is an example of the PUT operation to configure the range of the reserved VLAN.

URI

```
http://host:80/rest/config/running/reserved-vlan
```

Request body

```
<reserved-vlan>
  <reserved-vlan-start>30</reserved-vlan-start>
  <reserved-vlan-end>50</reserved-vlan-end>
</reserved-vlan>
```

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Response body

None

History

Release version	History
5.0.0	The API call was introduced.

rmon

Configures, modifies, or retrieves Remote Monitoring Protocol (RMON) configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rmon	Remote Monitoring Protocol (RMON)
<base_URI>/config/running/rmon/alarm	Remote Monitoring Protocol (RMON) alarm. Refer to rmon/alarm for information
<base_URI>/config/running/rmon/event	Remote Monitoring Protocol (RMON) event. Refer to rmon/event for information

Parameters

Name	Description
alarm	Configures RMON alarm
event	Configures RMON event

Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rmon
```

Request body

None

Response body

```
<rmon xmlns="urn:brocade.com:mgmt:brocade-rmon"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rmon">
  <event y:self="/rest/config/running/rmon/event/25"/>
  <alarm-entry y:self="/rest/config/running/rmon/alarm-entry"/>
</rmon>
```

History

Release version	History
5.0.0	The API call was introduced.

rmon/alarm

Configures, modifies, or retrieves Remote Monitoring Protocol (RMON) alarm configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rmon	Remote Monitoring Protocol (RMON)
<base_URI>/config/running/rmon/alarm	Remote Monitoring Protocol (RMON) alarm

Parameters

Name	Description
<i>alarm-index</i>	Specifies the alarm index. The value can range from 1 through 65535
<i>snmp-oid</i>	Specifies sampling object SNMP OID
<i>alarm-interval</i>	Specifies alarm interval. The interval can range from 1 through 2147483648 seconds
<i>alarm-sample</i>	Specifies alarm sample type. Supported types are absolute and delta . Configuring absolute sets sample type absolute. Configuring delta sets sample type delta
<i>alarm-rising-threshold</i>	Specifies alarm rising threshold value. The value can range from 0 through 4294967295
<i>alarm-rising-event-index</i>	Specifies event index for rising threshold. The value can range from 1 through 65535
<i>alarm-falling-threshold</i>	Specifies alarm falling threshold value. The value can range from 0 through 4294967295
<i>alarm-falling-event-index</i>	Specifies event index for falling threshold. The value can range from 1 through 65535
<i>alarm-owner</i>	Specifies the owner identity

Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rmon/alarm
```

Request body

None

Response body

```
<alarm-entry>
  <alarm-index>5</alarm-index>
  <snmp-oid>1.3.6.1.2.1.16.1.1.1.5.65535</snmp-oid>
```

```
<alarm-interval>30</alarm-interval>
<alarm-sample>absolute</alarm-sample>
<alarm-rising-threshold>95</alarm-rising-threshold>
<alarm-rising-event-index>27</alarm-rising-event-index>
<alarm-falling-threshold>85</alarm-falling-threshold>
<alarm-falling-event-index>30</alarm-falling-event-index>
<alarm-owner>john_smith</alarm-owner>
</alarm-entry>
```

History

Release version	History
5.0.0	The API call was introduced.

rmon/event

Configures, modifies, or retrieves Remote Monitoring Protocol (RMON) event configurations.

Resource URIs

URI	Description
<base_URI>/config/running/rmon	Remote Monitoring Protocol (RMON)
<base_URI>/config/running/rmon/event	Remote Monitoring Protocol (RMON) event

Parameters

Name	Description
<i>event-index</i>	Specifies event index. The value can range from 1 through 65535
<i>description</i>	Specifies event description
<i>log</i>	Logs the event
<i>owner</i>	Specifies owner name

Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/rmon/event
```

Request body

None

Response body

```
<event y:self="/rest/config/running/rmon/event/25">
  <event-index>25</event-index>
  <description>event1</description>
  <log>true</log>
  <owner>admin</owner>
</event>
```

The following is an example of the POST operation to add an event configuration.

URI

```
http://host:80/rest/config/running/rmon/event
```

Request body

```
<event-index>25</event-index>
description>event1</description>
<log>true</log>
```



```
<owner>admin</owner>
```

Response body

None

The following is an example of the DELETE operation to remove an event configuration.

URI

```
http://host:80/rest/config/running/rmon/event
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

role

Configures, modifies, or retrieves role configurations.

Resource URIs

URI	Description
<base_URI>/config/running/role	Role configuration
<base_URI>/config/running/role/name	Name of the role

Parameters

Name	Description
name	Specifies the name of the role
desc	Specifies the description of the role

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/role

Request body

None

Response body

```
<role xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/role">
  <name y:self="/rest/config/running/role/name/admin">
    <name>admin</name>
    <desc>Administrator</desc>
  </name>
  <name y:self="/rest/config/running/role/name/admin2">
    <name>admin2</name>
  </name>
  <name y:self="/rest/config/running/role/name/trial">
    <name>trial</name>
  </name>
  <name y:self="/rest/config/running/role/name/user">
    <name>user</name>
    <desc>User</desc>
  </name>
</role>
```

The following is an example of the POST operation to add a role name and description.

URI

`http://host:80/rest/config/running/role`

Request body

```
<name>
  <name>user3</name>
  <desc>user</desc>
</name>
```

Response body

None

The following is an example of the DELETE operation to remove a user.

URI

`http://host:80/rest/config/running/role/name/user3`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

router/fabric-virtual-gateway

Configures, modifies, or retrieves Fabric-Virtual-Gateway router configurations.

Resource URIs

URI	Description
<base_URI>/config/running/router/fabric-virtual-gateway	Fabric-Virtual-Gateway configurations
<base_URI>/config/running/router/fabric-virtual-gateway/address-family/ipv4	Fabric-Virtual-Gateway address-family IPv4 configurations
<base_URI>/config/running/router/fabric-virtual-gateway/address-family/ipv6	Fabric-Virtual-Gateway address-family IPv6 configurations

Parameters

Name	Description
<i>enable</i>	Enables Fabric-Virtual-Gateway
<i>gateway-mac-address</i>	Specifies MAC address in HHHH.HHHH.HHHH format
<i>timer</i>	Specifies gratuitous ARP timer. TH evalue can range from 0 through 360 seconds
<i>accept-unicast-arp-request</i>	Enables accept unicast ARP request for anycast gateway

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the router configuration details.

URI

```
http://host:80/rest/config/running/router
```

Request body

None

Response body

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/router">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
y:self="/rest/config/running/router/fabric-virtual-gateway">
    <address-family
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family">
      <ipv4
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family/ipv4">
        <enable>true</enable>
        <gratuitous-arp
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family/ipv4/g
ratuitous-arp">
          <timer>50</timer>
```

```

        </gratuitous-arp>
        <accept-unicast-arp-request>true</accept-unicast-arp-request>
        <gateway-mac-address>0011.0000.0000</gateway-mac-address>
    </ipv4>
    <ipv6
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family/ipv6">
        <enable>true</enable>
        <gratuitous-arp
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family/ipv6/n
d">
            <timer>70</timer>
            </gratuitous-arp>
            <gateway-mac-address>0011.2222.2233</gateway-mac-address>
        </ipv6>
    </address-family>
</fabric-virtual-gateway>
</router>

```

The following is an example of the POST operation to add an IPv4 address-family configuration.

URI

`http://host:80/rest/config/running/router/fabric-virtual-gateway/address-family`

Request body

```

<ipv4>
  <enable>true</enable>
  <gateway-mac-address>0011.2222.2233</gateway-mac-address>
</ipv4>

```

Response body

None

The following is an example of the DELETE operation to remove a gateway MAC address from IPv6 address-family configuration.

URI

`http://host:80/rest/config/running/router/fabric-virtual-gateway/address-family/ipv6/gateway-mac-address`

Request body

None

Response body

None

History

Release version	History
5.0.1	The API call was introduced.
6.0.0	The API call was not supported.
6.0.1	The API call was supported.

service

Configures, modifies, or retrieves password encryption services.

Resource URIs

URI	Description
<base_URI>/config/running/service	Password encryption services

Parameters

Name	Description
<i>password-encryption</i>	Encrypts all clear text passwords

Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/service
```

Request body

None

Response body

```
<service xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/service">
  <password-encryption>true</password-encryption>
</service>
```

The following is an example of the PUT operation to enable password encryption.

URI

```
http://host:80/rest/config/running/service
```

Request body

```
<service>
  <password-encryption>true</password-encryption>
</service>
```

Response body

None

The following is an example of the DELETE operation to disable password encryption.

URI

`http://host:80/rest/config/running/service`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

sflow

Configures, modifies, or retrieves sFlow configuration.

Resource URIs

URI	Description
<base_URI>/config/running/sflow	sFlow configuration
<base_URI>/config/running/sflow/collector	sFlow collector. Refer to sflow/collector for information

Parameters

Name	Description
<i>enable</i>	Enable sFlow globally
<i>collector-ip-address</i>	Specifies the IP address of the sFlow collector
<i>collector-port-number</i>	Specifies the port number used by the sFlow collector. The value can range from 1 through 65535
<i>polling-interval</i>	Specifies polling interval value. The value can range from 1 through 65535. The default value is 20
<i>sample-rate</i>	Specifies sampling rate value. The value can range from 2 through 16777215. The default value is 32768
<i>source-ip</i>	Specifies the source IP address to use. Supported configurations are chassis-ip and mm-ip . Configuring chassis-ip uses chassis IP as source address. Configuring mm-ip uses local MM IP as source address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/sflow
```

Request body

None

Response body

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/sflow">
  <enable>true</enable>
  <collector y:self="/rest/config/running/sflow/collector/10.20.38.100%2C6343"/>
  <source-ip>mm-ip</source-ip>
  <polling-interval>25</polling-interval>
  <sample-rate>32700</sample-rate>
```



```
</sflow>
```

The following is an example of the DELETE operation to change the polling interval from the sFlow configuration to the default value.

URI

```
http://host:80/rest/config/running/sflow/polling-interval/25
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>source-ip</i> .

sflow/collector

Configures, modifies, or retrieves sFlow collector configuration.

Resource URIs

URI	Description
<base_URI>/config/running/sflow/collector	sFlow collector

Parameters

Name	Description
<i>enable</i>	Enables sFlow
<i>collector-ip-address</i>	Configures the IPv4 or IPv6 address of the sFlow collector
<i>collector-port-number</i>	The port number used by the sFlow collector
<i>polling-interval</i>	Configures the counter polling interval value
<i>sample-rate</i>	Configures the sampling rate value in packets
<i>source-ip</i>	Configures the source IP address to use

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/sflow
```

Request body

None

Response body

```
<collector xmlns="urn:brocade.com:mgmt:brocade-sflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/sflow/collector/1.1.1.1%2C50%2Cmgmt-vrf">
  <collector-ip-address>1.1.1.1</collector-ip-address>
  <collector-port-number>50</collector-port-number>
  <use-vrf>mgmt-vrf</use-vrf>
</collector>
```

The following is an example of the POST operation to add the sFlow collector IP address.

URI

```
http://host:80/rest/config/running/sflow
```

Request body

```
<collector>
  <collector-ip-address>10.20.38.100</collector-ip-address>
  <collector-port-number>6343</collector-port-number>
  <use-vrf>mgmt-vrf</use-vrf>
</collector>
```

Response body

None

The following is an example of the DELETE operation to remove the sFlow configurations.

URI

`http://host:80/rest/config/running/sflow/collector`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>use-vrf</i> .

sflow-profile

Configures, modifies, or retrieves sFlow configuration.

Resource URIs

URI	Description
<base_URI>/config/running/sflow-profile	sFlow profile configuration

Parameters

Name	Description
<i>profile-name</i>	Specifies sFlow profile name
<i>sampling-rate</i>	Specifies sFlow sampling rate. The value can range from 2 through 8388608

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/sflow-profile
```

Request body

None

Response body

```
<sflow-profile xmlns="urn:brocade.com:mgmt:brocade-sflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/sflow-profile/slowprof1">
  <profile-name>slowprof1</profile-name>
  <sampling-rate>8</sampling-rate>
</sflow-profile>
```

History

Release version	History
5.0.1	The API call was introduced.

snmp-server

Configures, modifies, or retrieves the SNMP server configuration.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/community	Holds community strings and group name. Refer to snmp-server/community for information
<base_URI>/config/running/snmp-server/context	Context to various instance mapping. Refer to snmp-server/context for information
<base_URI>/config/running/snmp-server/enable	Enable or disable the traps. Refer to snmp-server/enable for information
<base_URI>/config/running/snmp-server/host	Holds IP address. Refer to snmp-server/host for information
<base_URI>/config/running/snmp-server/mib	Maps an SNMP community string to an SNMP context
<base_URI>/config/running/snmp-server/user	Holds user name and group name. Refer to snmp-server/user for information
<base_URI>/config/running/snmp-server/v3host	Holds IP address, user name, severity level, and port number. Refer to snmp-server/v3host for information

Parameters

Name	Description
<i>context</i>	Configures context to various instant mapping
<i>location</i>	Configures the location of the system
<i>sys-descr</i>	Configures the description of the system
<i>enable</i>	Enables or disables the traps
<i>community</i>	Configures community strings and group name associated with the community
<i>host</i>	Configures IP address, community string, version, port number used to send traps, and severity level
<i>user</i>	Configures user name, group name, auth and priv attributes associated with SNMP user name
<i>v3host</i>	Configures IP address, user name, severity-level, and port number used to send V3 traps

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/snmp-server

Request body

None

Response body

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/snmp-server">
  <context y:self="/rest/config/running/snmp-server/context/mycontext"/>
  <contact>server1</contact>
  <location>first-floor</location>
  <sys-descr>VDX-Switch</sys-descr>
  <enable y:self="/rest/config/running/snmp-server/enable"/>
  <community
y:self="/rest/config/running/snmp-server/community/ConvergedNetwork"/>
  <host y:self="/rest/config/running/snmp-server/host/10.20.234.255%2Cprivate"/>
  <user y:self="/rest/config/running/snmp-server/user/snmpadmin3"/>
  <v3host
y:self="/rest/config/running/snmp-server/v3host/10.20.23.100%2Csnmpuser1"/>
</snmp-server>
```

History

Release version	History
5.0.0	The API call was introduced.
5.0.1a	The API call was modified to include the parameter <i>groupname</i> .
7.0.0	The API was modified to include the new URI: <base_URI>/config/running/snmp-server/mib.

snmp-server/community

Configures, modifies, or retrieves SNMP community configuration.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/community	Holds community strings and group name

Parameters

Name	Description
<i>community</i>	Specifies the community string
<i>ipv4-acl</i>	Specifies the IPv4 access-list name
<i>ipv6-acl</i>	Specifies the IPv6 access-list name
<i>groupname</i>	Specifies the group name associated with the community name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/snmp-server/community
```

Request body

None

Response body

```
<community y:self="/rest/config/running/snmp-server/community/ConvergedNetwork">
  <community>ConvergedNetwork</community>
  <ipv4-acl>acl5</ipv4-acl>
  <ipv6-acl>acl12</ipv4-acl>
  <groupname>user</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/OrigEquipMfr">
  <community>OrigEquipMfr</community>
  <groupname>group1</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/&quot;Secret
C0de&quot;">
  <community>"Secret C0de"</community>
  <groupname>group3</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/common">
```

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```
<community>common</community>
</community>
<community y:self="/rest/config/running/snmp-server/community/private">
  <community>private</community>
  <ipv4-acl>acl115</ipv4-acl>
  <ipv6-acl>acl120</ipv4-acl>
  <groupname>admin</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/public">
  <community>public</community>
  <groupname>user</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/secretcode">
  <community>secretcode</community>
</community>
```

The following is an example of the POST operation to set the community and groupname of the SNMP server.

URI

http://host:80/rest/config/running/snmp-server

Request body

```
<community>
  <community>private</community>
  <ipv4-acl>acl20</ipv4-acl>
  <ipv6-acl>acl25</ipv4-acl>
  <groupname>group4</groupname>
</community>
```

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1a	The API call was modified to include the parameters <i>ipv4-acl</i> and <i>ipv6-acl</i> .

snmp-server/context

Configures, modifies, or retrieves SNMP context configuration.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/context	Context to various instance mapping

Parameters

Name	Description
<i>context-name</i>	Specifies the context name
<i>vrf-name</i>	Specifies the VRF name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/snmp-server/context
```

Request body

None

Response body

```
<context y:self="/rest/config/running/snmp-server/context/mycontext">
  <context-name>mycontext</context-name>
  <vrf-name>myvrf</vrf-name>
</context>
```

History

Release version	History
5.0.0	The API call was introduced.

snmp-server/enable

Enables SNMP traps.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/enable	Enable or disable the traps

Parameters

Name	Description
trap-flag	Enables traps

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/snmp-server/enable

Request body

None

Response body

```
<enable y:self="/rest/config/running/snmp-server/enable">
  <trap y:self="/rest/config/running/snmp-server/enable/trap">
    <trap-flag>true</trap-flag>
  </trap>
</enable>
```

History

Release version	History
5.0.0	The API call was introduced.

snmp-server/host

Configures, modifies, or retrieves SNMP host configuration.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/host	Holds IP address

Parameters

Name	Description
<i>ip</i>	Specifies host IP address
<i>community</i>	Specifies the community string associated with the host entry
<i>udp-port</i>	Specifies the UDP port where SNMP traps will be received. The valid port IDs range from 0 through 65535. The default port is 162
<i>severity-level</i>	Provides the ability to filter traps based on severity level on both the host and the SNMPv3 host. Only RASLog (swEvent) traps can be filtered based on severity level. The configured severity level marks the reporting threshold. All messages with the configured severity or higher are displayed
<i>version</i>	Selects version 1 or 2c traps to be sent to the specified trap host
<i>use-vrf</i>	Specifies a VRF through which to communicate with the SNMP host

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/snmp-server/host
```

Request body

None

Response body

```
<host xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/snmp-server/host/1.1.1.1%2Ccomm1">
  <ip>1.1.1.1</ip>
  <community>comm1</community>
  <version>2c</version>
  <udp-port>161</udp-port>
  <severity-level>Info</severity-level>
  <use-vrf>mgmt-vrf</use-vrf>
```

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```
</host>
```

The following is an example of the POST operation to configure SNMP server host parameters.

URI

```
http://host:80/rest/config/running/snmp-server
```

Request body

```
<host>
  <ip>10.10.1.1</ip>
  <community>comm1</community>
  <version>1</version>
  <udp-port>156</udp-port>
  <severity-level>Info</severity-level>
  <use-vrf>default-vrf</use-vrf>
</host>
```

Response body

None

The following is an example of the DELETE operation to remove SNMP server host configurations.

URI

```
http://host:80/rest/config/running/snmp-server/host
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>use-vrf</i> .

snmp-server/mib

Configures, modifies, or retrieves an SNMP community string to an SNMP context.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server/mib	Maps an SNMP community string to an SNMP context

Parameters

Name	Description
<i>community</i>	Specifies an SNMP community name
<i>context</i>	Specifies an SNMP context

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/snmp-server/mib
```

Request body

None

Response body

```
<mib xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/snmp-server/mib">
  <community-map
y:self="/rest/config/running/snmp-server/mib/community-map/public">
    <community>public</community>
    <context>ctxtA</context>
  </community-map>
</mib>
```

History

Release version	History
7.0.0	The API call was introduced.

snmp-server/user

Configures, modifies, or retrieves SNMP user configuration.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/user	Holds user name, group name

Parameters

Name	Description
<i>username</i>	Specifies username associated with V3 notification type
<i>groupname</i>	Specifies groupname associated with username
<i>auth</i>	Specifies authorization protocol for username. Supported configurations are md5 , noauth and sha . Configuring md5 sets HMAC-MD5-96 is an authentication protocol uses md5 message digest algorithm for digest computation. Configuring noauth removes authentication. Configuring sha sets HMAC-SHA-96 is an authentication protocol uses secure hash algorithm sha for digest computation
<i>auth-password</i>	Specifies authorization password associated with the username
<i>noauth</i>	Removes authentication
<i>priv</i>	Specifies privacy protocol for username
<i>priv-password</i>	Speciffies privacy password associated with username
<i>nopriv</i>	Removes privacy
<i>encrypted</i>	This flag is used to enter the auth/priv passwords as encrypted.

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/snmp-server/user
```

Request body

None

Response body

```
<user y:self="/rest/config/running/snmp-server/user/snmpadmin3">
  <username>snmpadmin3</username>
  <groupname>snmpadmin</groupname>
</user>
```

```
<user y:self="/rest/config/running/snmp-server/user/snmpuser1">
  <username>snmpuser1</username>
</user>
<user y:self="/rest/config/running/snmp-server/user/snmpuser2">
  <username>snmpuser2</username>
</user>
<user y:self="/rest/config/running/snmp-server/user/snmpuser3">
  <username>snmpuser3</username>
  <auth>md5</auth>
  <auth-password>user</auth-password>
  <priv>DES</priv>
  <priv-password>user</priv-password>
  <encrypted>>true</encrypted>
</user>
```

The following is an example of the POST operation to configure SNMP user configuration.

URI

http://host:80/rest/config/running/snmp-server

Request body

```
<user>
  <username>snmuser1</username>
  <groupname>snmpadmin</groupname>
  <auth>md5</auth>
  <auth-password>123456</auth-password>
  <priv>DES</priv>
  <priv-password>654321</priv-password>
</user>
```

Response body

None

The following is an example of the DELETE operation to remove a user name from the SNMP server configuration.

URI

http://host:80/rest/config/running/snmp-server/user/snmpuser3

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

snmp-server/v3host

Configures, modifies, or retrieves SNMPv3 host configuration.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/v3host	Holds IP address, user name, severity level and port number

Parameters

Name	Description
<i>hostip</i>	Specifies the IP address of the host. IPv4, IPv6, and DNS hosts are supported
<i>engineid</i>	Sets the remote engine ID to receive informs on a remote host
<i>severity-level</i>	Provides the ability to filter traps based on severity level on both the host and the SNMPv3 host. Only RASLog (swEvent) traps can be filtered based on severity level. The configured severity level marks the reporting threshold. All messages with the configured severity or higher are displayed. If the severity level of None is specified, all traps are filtered and no RASLog traps are received. The default severity level is none
<i>use-vrf</i>	Sets the SNMP to use the specified VRF to communicate with the host. This parameter is optional

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/snmp-server/v3host
```

Request body

None

Response body

```
<v3host xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/snmp-server/v3host/20.20.1.1%2Cuser1">
  <hostip>20.20.1.1</hostip>
  <username>user1</username>
  <udp-port>160</udp-port>
  <notifytype>informs</notifytype>
  <engineid>00:00:00:00:00:00</engineid>
  <severity-level>Info</severity-level>
```



```
<use-vrf>mgmt-vrf</use-vrf>
</v3host>
```

The following is an example of the POST operation to configure SNMPv3 server host parameters.

URI

`http://host:80/rest/config/running/snmp-server`

Request body

```
<v3host>
  <hostip>10.20.1.1</hostip>
  <username>user4</username>
  <udp-port>145</udp-port>
  <notifytype>traps</notifytype>
  <engineid>00:00:00:00:00:00</engineid>
  <severity-level>Info</severity-level>
  <use-vrf>default-vrf</use-vrf>
</v3host>
```

Response body

None

The following is an example of the DELETE operation to remove SNMPv3 server host configurations.

URI

`http://host:80/rest/config/running/snmp-server/v3host`

Request body

None

Response body

None

History

Release version	History
6.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>use-vrf</i> .

support

Configures, modifies, or retrieves support configuration.

Resource URIs

URI	Description
<base_URI>/config/running/support	Support
<base_URI>/config/running/support/autoupload	Autoupload operation. Refer to support/autoupload for information
<base_URI>/config/running/support/autoupload-param	Autoupload parameters. Refer to support/autoupload-param for information
<base_URI>/config/running/support/support-param	Copy support parameters. Refer to support/support-param for information

Parameters

Name	Description
<i>autoupload</i>	Configures autoupload operation parameters
<i>autoupload-param</i>	Configures autoupload parameters
<i>support-param</i>	Configures copy support parameter
<i>ffdc</i>	Enables or Disables FFDC file generation

Usage guidelines

GET, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/support
```

Request body

None

Response body

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/support">
  <autoupload-param y:self="/rest/config/running/support/autoupload-param"/>
  <support-param y:self="/rest/config/running/support/support-param"/>
  <autoupload y:self="/rest/config/running/support/autoupload"/>
  <ffdc>true</ffdc>
</support>
```

History

Release version	History
5.0.0	The API call was introduced.

support/autoupload

Configures, modifies, or retrieves autoupload configuration.

Resource URIs

URI	Description
<base_URI>/config/running/support	Support
<base_URI>/config/running/support/autoupload	Autoupload operation

Parameters

Name	Description
<i>enable</i>	Enables autoupload

Usage guidelines

GET, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/support/autoupload
```

Request body

None

Response body

```
<autoupload y:self="/rest/config/running/support/autoupload">
  <enable>true</enable>
</autoupload>
```

History

Release version	History
5.0.0	The API call was introduced.

support/autoupload-param

Configures, modifies, or retrieves autoupload parameter configuration.

Resource URIs

URI	Description
<base_URI>/config/running/support	Support
<base_URI>/config/running/support/autoupload-param	Autoupload parameters

Parameters

Name	Description
<i>hostip</i>	Specifies the IPv4 or IPv6 address of the remote host
<i>username</i>	Specifies the user name to access the remote host
<i>directory</i>	Specifies the file path
<i>protocol</i>	Specifies the protocol used to access the remote server. Supported protocols are scp , sftp and ftp
<i>password</i>	Specifies the password to access the remote host

Usage guidelines

GET, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/support/autoupload-param
```

Request body

None

Response body

```
<autoupload-param y:self="/rest/config/running/support/autoupload-param">
  <hostip>127.0.0.1</hostip>
  <username>user1</username>
  <directory>12</directory>
  <protocol>ftp</protocol>
  <password>"XDVmJTJ/uRBkyWmSat7/og==\n"</password>
</autoupload-param>
```

The following is an example of the PUT operation to add a user name and protocol to the support parameter.

URI

```
http://host:80/rest/config/running/support
```

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Request body

```
<autoupload-param>
  <hostip>127.0.0.1</hostip>
  <username>user1</username>
  <directory>test</directory>
  <protocol>ftp</protocol>
  <password>"XDVMJTJ/uRBkyWmSat7/og==\n"</password>
</autoupload-param>
```

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

support/support-param

Configures, modifies, or retrieves support parameter configuration.

Resource URIs

URI	Description
<base_URI>/config/running/support	Support
<base_URI>/config/running/support/support-param	Copy support parameters

Parameters

Name	Description
<i>hostip</i>	Specifies IP address of the remote host
<i>username</i>	Specifies the user name to access the remote host
<i>directory</i>	Specifies the path to the directory
<i>protocol</i>	Specifies the protocol used to access the remote server. Supported protocols are ftp , scp and sftp
<i>password</i>	Specifies the password to access the remote host

Usage guidelines

GET, PUT, PATCH, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/support/support-param
```

Request body

None

Response body

```
<support-param y:self="/rest/config/running/support/support-param">
  <hostip>10.20.38.100</hostip>
  <username>user1</username>
  <directory>12</directory>
  <protocol>scp</protocol>
  <password>"XDVmJTJ/uRBkyWmSat7/og==\n"</password>
</support-param>
```

History

Release version	History
5.0.0	The API call was introduced.

switch-attributes

Configures, modifies, or retrieves switch attributes configurations.

Resource URIs

URI	Description
<base_URI>/config/running/switch-attributes	Switch attributes
<base_URI>/config/running/switch-attributes/rbridge-id	RBridge ID setting

Parameters

Name	Description
<i>rbridge-id</i>	Specifies the RBridge ID
<i>chassis-name</i>	Specifies the chassis name
<i>host-name</i>	Specifies the host name

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/switch-attributes`

Request body

None

Response body

```
<switch-attributes xmlns="urn:brocade.com:mgmt:brocade-ras"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/switch-attributes">
  <rbridge-id y:self="/rest/config/running/switch-attributes/rbridge-id/122">
    <rbridge-id>122</rbridge-id>
    <chassis-name>VDX8770-8</chassis-name>
    <host-name>M8-122</host-name>
  </rbridge-id>
  <rbridge-id y:self="/rest/config/running/switch-attributes/rbridge-id/125">
    <rbridge-id>125</rbridge-id>
    <chassis-name>VDX8770-4</chassis-name>
    <host-name>M4-125</host-name>
  </rbridge-id>
  <rbridge-id y:self="/rest/config/running/switch-attributes/rbridge-id/54">
    <rbridge-id>54</rbridge-id>
    <chassis-name>VDX6740</chassis-name>
    <host-name>CAS-54</host-name>
  </rbridge-id>
```



```
</switch-attributes>
```

The following is an example of the DELETE operation to change the switch attributes to default values.

URI

```
http://host:80/rest/config/running/switch-attributes/rbridge-id/60
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

system-monitor-mail

Configures, modifies, or retrieves FRU mail settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/fru	FRU mail settings. Refer to system-monitor-mail/fru for information
<base_URI>/config/running/system-monitor-mail/interface	Interface mail settings. Refer to system-monitor-mail/interface for information
<base_URI>/config/running/system-monitor-mail/relay	Relay IP mail settings. Refer to system-monitor-mail/relay for information
<base_URI>/config/running/system-monitor-mail/security	Security mail settings. Refer to system-monitor-mail/security for information
<base_URI>/config/running/system-monitor-mail/sfp	SFP mail settings. Refer to system-monitor-mail/sfp for information

Parameters

Name	Description
<i>fru</i>	Configures FRU mail settings
<i>interface</i>	Configures interface mail settings
<i>relay</i>	Configures relay IP mail settings
<i>security</i>	Configures security mail settings
<i>sfp</i>	Configures SFP mail settings

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/system-monitor-mail
```

Request body

None

Response body

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/system-monitor-mail">
```

```
<fru y:self="/rest/config/running/system-monitor-mail/fru"/>
<sfp y:self="/rest/config/running/system-monitor-mail/sfp"/>
<security y:self="/rest/config/running/system-monitor-mail/security"/>
<interface y:self="/rest/config/running/system-monitor-mail/interface"/>
<relay y:self="/rest/config/running/system-monitor-mail/relay/10.20.38.100"/>
</system-monitor-mail>
```

History

Release version	History
5.0.0	The API call was introduced.

system-monitor-mail/fru

Configures, modifies, or retrieves FRU mail settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/fru	FRU mail settings

Parameters

Name	Description
<i>email</i>	Specifies e-mail address for FRU alerts
<i>enable</i>	Enables FRU e-mail alerts

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/system-monitor-mail/fru
```

Request body

None

Response body

```
<fru y:self="/rest/config/running/system-monitor-mail/fru">
  <enable>true</enable>
  <email-list
y:self="/rest/config/running/system-monitor-mail/fru/email-list/abc@brocade.com"
  >
    <email>abc@brocade.com</email>
  </email-list>
</fru>
```

History

Release version	History
5.0.0	The API call was introduced.

system-monitor-mail/interface

Configures, modifies, or retrieves interface mail settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/interface	Interface mail settings

Parameters

Name	Description
<i>email</i>	Specifies e-mail address for interface alerts
<i>enable</i>	Enables interface e-mail alerts

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/system-monitor-mail/interface
```

Request body

None

Response body

```
<interface y:self="/rest/config/running/system-monitor-mail/interface">
  <enable>true</enable>
  <email-list
y:self="/rest/config/running/system-monitor-mail/interface/email-list/abc1@brocade.com">
    <email>abc1@brocade.com</email>
  </email-list>
</interface>
```

History

Release version	History
5.0.0	The API call was introduced.

system-monitor-mail/relay

Configures, modifies, or retrieves relay IP mail settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/relay	Relay IP mail settings

Parameters

Name	Description
host-ip	Specifies host IP address
domain-name	Specifies domain server name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/system-monitor-mail/relay
```

Request body

None

Response body

```
<relay y:self="/rest/config/running/system-monitor-mail/relay/10.20.38.100">
  <host-ip>10.20.38.100</host-ip>
  <domain-name>domain1</domain-name>
</relay>
```

The following is an example of the POST operation to configure the relay host for e-mail to work in a non-DNS environment.

URI

```
http://host:80/rest/config/running/system-monitor-mail
```

Request body

```
<relay>
  <host-ip>10.20.38.120</host-ip>
  <domain-name>domain1</domain-name>
</relay>
```

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

system-monitor-mail/security

Configures, modifies, or retrieves security mail settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/security	Security mail settings

Parameters

Name	Description
<i>email</i>	Specifies e-mail address for security alerts
<i>enable</i>	Enables security e-mail alerts

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/system-monitor-mail/security
```

Request body

None

Response body

```
<security y:self="/rest/config/running/system-monitor-mail/security">
  <enable>true</enable>
  <email-list
y:self="/rest/config/running/system-monitor-mail/security/email-list/abc@brocade
.com">
    <email>abc@brocade.com</email>
  </email-list>
</security>
```

The following is an example of the DELETE operation to remove the security e-mail settings.

URI

```
http://host:80/rest/config/running/system-monitor-mail/security
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

system-monitor-mail/sfp

Configures, modifies, or retrieves FRU mail settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/sfp	SFP mail settings

Parameters

Name	Description
<i>email</i>	Specifies e-mail address for SFP alerts
<i>enable</i>	Enables sfp e-mail alerts

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/system-monitor-mail/sfp`

Request body

None

Response body

```
<sfp y:self="/rest/config/running/system-monitor-mail/sfp">
  <enable>true</enable>
  <email-list
y:self="/rest/config/running/system-monitor-mail/sfp/email-list/abc1@brocade.com
">
    <email>abc1@brocade.com</email>
  </email-list>
</sfp>
```

History

Release version	History
5.0.0	The API call was introduced.

tacacs-server

Configures, modifies, or retrieves TACACS+ server configuration.

Resource URIs

URI	Description
<base_URI>/config/running/tacacs-server	TACACS+ server

Parameters

Name	Description
<i>hostname</i>	Specifies the IP address or domain name of the TACACS+ server. IPv4 and IPv6 addresses are supported
<i>use-vrf</i>	Specifies the VRF name
<i>encryption-level</i>	Specifies the level of encryption of the key
<i>key</i>	Specifies the text string that is used as the shared secret between the switch and the TACACS+ server to make the message exchange secure. The key value can range from 8 through 40 characters in length. The default key is sharedsecret
<i>port</i>	Specifies the authentication port. Valid values range from 0 through 65535. The default is 49
<i>protocol</i>	Specifies the authentication protocol. Options include CHAP and PAP. The default is CHAP
<i>retries</i>	Specifies the number of attempts allowed to connect to a TACACS+ server. The number of retries can range from 0 through 100. The default number of retries is 5
<i>timeout</i>	Specifies the time to wait for the TACACS+ server to respond. The wait time can range from 1 through 60 seconds. The default wait time is 5 seconds
<i>source-ip</i>	Specifies the source IP to be used for TACACS+. Source IP can be used from chassis-ip and mm-ip . Configuring chassis-ip uses chassis IP as source address. Configuring mm-ip uses local MM IP as source address

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/tacacs-server
```

Request body

None

Response body

```
<tacacs-server xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/tacacs-server">
  <host y:self="/rest/config/running/tacacs-server/host/10.20.38.100">
    <hostname>10.20.38.100</hostname>
    <use-vrf>mgmt-vrf</use-vrf>
    <port>55</port>
    <protocol>pap</protocol>
    <key>"Yf0BKEhsc83gp+kIoGMQ/g==\n"</key>
    <encryption-level>7</encryption-level>
    <retries>6</retries>
    <timeout>10</timeout>
  </host>
  <source-ip>chassis-ip</source-ip>
</tacacs-server>
```

The following is an example of the POST operation to add a new host to the TACACS+ server.

URI

`http://host:80/rest/config/running/tacacs-server`

Request body

```
<host>
  <hostname>10.20.38.110</hostname>
</host>
```

Response body

None

The following is an example of the DELETE operation to remove a host name from the TACACS+ server.

URI

`http://host:80/rest/config/running/tacacs-server/host/10.20.38.110`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.
7.0.0	The API call was modified to include the parameter <i>use-vrf</i> .

username

Configures, modifies, or retrieves configuration of local users.

Resource URIs

URI	Description
<base_URI>/config/running/username	Configuration of local users

Parameters

Name	Description
<i>name</i>	Specifies the user name
<i>desc</i>	Specifies the account description
<i>enable</i>	Enables or disables the user account. Configuring true enables the user account, default value is set to true. Configuring false disables user account
<i>encryption-level</i>	Specifies the level of encryption of the password. Supported configurations are 0 and 7 . Configuring 0 sets the password as CLEAR-TEXT. Configuring 7 sets the password as encrypted
<i>expire</i>	Specifies the date until when the password will remain valid after being updated. The default value is set to "never"
<i>password</i>	Speciffies the password of the user
<i>role</i>	Specifies the role of the user

Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/username
```

Request body

None

Response body

```
<username xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/username/admin">
  <name>admin</name>
  <password>"BwrsDbB+tABWGWpINOVKoQ==\n"</password>
  <encryption-level>7</encryption-level>
  <role>admin</role>
  <desc>Administrator</desc>
</username>
```

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```
<username xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/username/user1">
  <name>user1</name>
  <password>"Zzq31Rtf/++XZ3uIC1keMw==\n"</password>
  <encryption-level>7</encryption-level>
  <role>user</role>
  <desc>user1</desc>
  <expire>2016-06-06</expire>
</username>
```

The following is an example of the DELETE operation to remove a user name.

URI

http://host:80/rest/config/running/username/user3

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

VCS

Configures, modifies, or retrieves Virtual Cluster Switching configuration.

Resource URIs

URI	Description
<base_URI>/config/running/vcs	Virtual Cluster Switching
<base_URI>/config/running/vcs/virtual	Virtual cluster switching configuration. Refer to vcs/virtual for information
<base_URI>/config/running/vcs/virtual-fabric	VCS virtual-fabric. Refer to vcs/virtual-fabric for information

Parameters

Name	Description
<i>address</i>	Specifies the IP address in IPv4 format by means of a CIDR prefix (mask)
<i>Ve</i>	Specifies the VE interface number
<i>enable</i>	Enables virtual fabric

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/vcs
```

Request body

None

Response body

```
<vcs xmlns="urn:brocade.com:mgmt:brocade-vcs"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/vcs">
  <virtual y:self="/rest/config/running/vcs/virtual"/>
  <virtual-fabric y:self="/rest/config/running/vcs/virtual-fabric"/>
</vcs>
```

History

Release version	History
5.0.0	The API call was introduced.

vcs/virtual

Configures, modifies, or retrieves Virtual Cluster Switching configuration.

Resource URIs

URI	Description
<base_URI>/config/running/vcs	Virtual Cluster Switching
<base_URI>/config/running/vcs/virtual	Virtual Cluster Switching configuration
<base_URI>/config/running/vcs/virtual/ip/address	Virtual IP address
<base_URI>/config/running/vcs/virtual/ipv6/address	Virtual IPv6 address

Parameters

Name	Description
address	Specifies the IP address in IPv4 format by means of a CIDR prefix (mask)
Ve	Specifies the VE interface number

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/vcs/virtual
```

Request body

None

Response body

```
<virtual y:self="/rest/config/running/vcs/virtual">
  <ip y:self="/rest/config/running/vcs/virtual/ip">
    <address
y:self="/rest/config/running/vcs/virtual/ip/address/%2210.20.1.1/24%22">
      <address>10.20.1.1/24</address>
      <inband
y:self="/rest/config/running/vcs/virtual/ip/address/%2210.20.1.1/24%22/inband">
        <interface
y:self="/rest/config/running/vcs/virtual/ip/address/%2210.20.1.1/24%22/inband/in
terface">
          <ve>10</ve>
        </interface>
      </inband>
    </address>
  </ip>
</virtual>
```


The following is an example of the POST operation to add a new virtual IP address.

URI

`http://host:80/rest/config/running/vcs`

Request body

```
<virtual>
  <ip>
    <address>
      <address>10.20.1.2/24</address>
    </address>
  </ip>
</virtual>
```

Response body

None

The following is an example of the DELETE operation to remove a virtual IP address.

URI

`http://host:80/rest/config/running/vcs/virtual/ip/address/%2210.20.1.2/24%22`

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

vcs/virtual-fabric

Configures, modifies, or retrieves Virtual Cluster Switching virtual fabric configuration.

Resource URIs

URI	Description
<base_URI>/config/running/vcs	Virtual Cluster Switching
<base_URI>/config/running/vcs/virtual-fabric	VCS virtual fabric

Parameters

Name	Description
<i>enable</i>	Enables virtual fabric

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/vcs/virtual-fabric
```

Request body

None

Response body

```
<virtual-fabric y:self="/rest/config/running/vcs/virtual-fabric">  
  <enable>true</enable>  
</virtual-fabric>
```

The following is an example of the POST operation to enable virtual fabric.

URI

```
http://host:80/rest/config/runningvcs/virtual-fabric
```

Request body

```
<enable>true</enable>
```

Response body

None

The following is an example of the DELETE operation to disable virtual fabric.

URI

```
http://host:80/rest/config/running/vcs/virtual-fabric/enable
```

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

vlag-commit-mode

Disables the virtual LAG (vLAG) commit mode for dynamic vLAGs, also disabling the actor and partner SID selection operations.

Resource URIs

URI	Description
<base_URI>/config/running/vlag-commit-mode/disable	Disables the virtual LAG (vLAG) commit mode for dynamic vLAGs

Parameters

Name	Description
disable	Disables the virtual LAG (vLAG) commit mode for dynamic vLAGs

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

http://host:80/rest/config/running/vlag-commit-mode

Request body

None

Response body

```
<vlag-commit-mode xmlns="urn:brocade.com:mgmt:brocade-lacp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/vlag-commit-mode">
  <disable>true</disable>
</vlag-commit-mode>
```

History

Release version	History
7.0.0	The API call was introduced.

vlan

Configures, modifies, or retrieves VLAN commands.

Resource URIs

URI	Description
<base_URI>/config/running/vlan	VLAN commands
<base_URI>/config/running/vlan/classifier	VLAN classification groups commands. Refer to vlan/classifier for information
<base_URI>/config/running/vlan/dot1q	Dot1q parameters. Refer to vlan/dot1q for information

Parameters

Name	Description
<i>classifier</i>	Configures VLAN classification commands
<i>dot1q</i>	Configures dot1q parameters

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/vlan
```

Request body

None

Response body

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/vlan">
  <classifier y:self="/rest/config/running/vlan/classifier"/>
  <dot1q y:self="/rest/config/running/vlan/dot1q"/>
</vlan>
```

History

Release version	History
5.0.0	The API call was introduced.

vlan/classifier

Configures, modifies, or retrieves VLAN classifier commands.

Resource URIs

URI	Description
<base_URI>/config/running/vlan	VLAN commands
<base_URI>/config/running/vlan/classifier	VLAN classification groups commands
<base_URI>/config/running/vlan/classifier/group	VLAN classifier group ID

Parameters

Name	Description
<i>ruleid</i>	Specifies the rule ID. The value can range from 1 through 256
<i>address</i>	Specifies MAC address in HHHH.HHHH.HHHH format
<i>proto-val</i>	Specifies the protocol to use for the VLAN classifier rule. Supported configurations are <i>hex_addr</i> , arp , ip and ipv6 . Configuring hex_addr specifies an Ethernet hexadecimal value. The value can range from 0x0000 through 0xffff. Configuring arp specifies to use the Address Resolution Protocol. Configuring ip specifies to use the Internet Protocol. Configuring ipv6 specifies to use the Internet Protocol version 6
<i>encap</i>	Specifies to encapsulate the Ethernet frames sent for the VLAN classifier rule. Supported configurations are ethv2 , nosnaplc and snaplc . Configuring ethv2 specifies to use the Ethernet version 2 encapsulated frames. Configuring nosnaplc specifies to use the Ethernet version 2 non-SNA frames. Configuring snaplc specifies to use the Ethernet version 2 with SNA frames
<i>groupid</i>	Specifies VLAN classifier group ID. The value can range from 1 through 16
<i>oper</i>	Specifies the operation. Supported operations are add and delete . Configuring add adds rules. Configuring delete deletes rules
<i>rule-name</i>	Specifies VLAN classifier rule name

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/vlan/classifier
```

Request body

None

Response body

```

<classifier y:self="/rest/config/running/vlan/classifier">
  <rule y:self="/rest/config/running/vlan/classifier/rule/3">
    <ruleid>3</ruleid>
    <mac y:self="/rest/config/running/vlan/classifier/rule/3/mac">
      <address>0011.2222.2233</address>
    </mac>
  </rule>
  <rule y:self="/rest/config/running/vlan/classifier/rule/4">
    <ruleid>4</ruleid>
    <proto y:self="/rest/config/running/vlan/classifier/rule/4/proto">
      <proto-val>arp</proto-val>
      <encap>ethv2</encap>
    </proto>
  </rule>
  <group y:self="/rest/config/running/vlan/classifier/group/2%2Cadd%2Crule%2C3">
    <groupid>2</groupid>
    <oper>add</oper>
    <rule-name>rule</rule-name>
    <ruleid>3</ruleid>
  </group>
</classifier>

```

The following is an example of the POST operation to add a rule.

URI

```
http://host:80/rest/config/running/vlan/classifier
```

Request body

```

<rule>
  <ruleid>3</ruleid>
  <proto>
    <proto-val>ip</proto-val>
    <encap>snapllc</encap>
  </proto>
</rule>

```

Response body

None

The following is an example of the DELETE operation to remove a rule.

URI

```
http://host:80/rest/config/running/vlan/classifier/rule/2
```

Request body

None

Response body

None

4 Configuration APIs

History

Release version	History
5.0.0	The API call was introduced.

vlan/dot1q

Configures, modifies, or retrieves VLAN dot1q commands.

Resource URIs

URI	Description
<base_URI>/config/running/vlan	VLAN commands
<base_URI>/config/running/vlan/dot1q	Dot1q parameters

Parameters

Name	Description
<i>native</i>	Enables tagged behavior for native-VLANs

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/vlan/dot1q
```

Request body

None

Response body

```
<dot1q y:self="/rest/config/running/vlan/dot1q">
  <tag y:self="/rest/config/running/vlan/dot1q/tag">
    <native>true</native>
  </tag>
</dot1q>
```

History

Release version	History
5.0.0	The API call was introduced.

zoning

Configures, modifies, or retrieves zoning commands.

Resource URIs

URI	Description
<base_URI>/config/running/zoning	Zoning commands
<base_URI>/config/running/zoning/defined-configuration	Defined DB entries. Refer to zoning/defined-configuration for information
<base_URI>/config/running/zoning/enabled-configuration	Enabled DB entries. Refer to zoning/enabled-configuration for information

Parameters

Name	Description
<i>defined-configuration</i>	Defines DB entries
<i>enabled-configuration</i>	Enables DB entries

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/zoning`

Request body

None

Response body

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/zoning">
  <defined-configuration
y:self="/rest/config/running/zoning/defined-configuration"/>
  <enabled-configuration
y:self="/rest/config/running/zoning/enabled-configuration"/>
</zoning>
```

History

Release version	History
5.0.0	The API call was introduced.

zoning/defined-configuration

Configures, modifies, or retrieves defined DB entry commands.

Resource URIs

URI	Description
<base_URI>/config/running/zoning	Zoning commands
<base_URI>/config/running/zoning/defined-configuration	Defined DB entries
<base_URI>/config/running/zoning/defined-configuration/alias	List of defined Zone Aliases
<base_URI>/config/running/zoning/defined-configuration/alias/{alias-name}/member-entry	Add members to a zone
<base_URI>/config/running/zoning/defined-configuration/cfg	List of defined CFGs
<base_URI>/config/running/zoning/defined-configuration/cfg-name/{cfg-name}/member-zone	Add members to cfg
<base_URI>/config/running/zoning/defined-configuration/zone	List of defined zones
<base_URI>/config/running/zoning/defined-configuration/zone/{zone-name}/member-entry	Add members to a zone

Parameters

Name	Description
<i>cfg-name</i>	Specifies CFG name
<i>zone-name</i>	Specifies the name of a zone to be added to the configuration or removed from the configuration
<i>entry-name</i>	Specifies the name of the entry
<i>alias-name</i>	Specifies alias name
<i>alias-entry-name</i>	Specifies the WWN of the device to be added to the zone alias
<i>default-zone-access</i>	Sets the default zone access to allaccess (Sets the default zone access mode to "All Access". Each device can access all other devices attached to the VCS Fabric) or Noaccess (Sets the default zone access mode to "No Access". No device can access any other device in the VCS Fabric)
<i>cfg-action</i>	Specifies defined configuration action. Supported configurations are cfg-clear , cfg-disable , cfg-none , cfg-save and cfg-transaction-abort . Configuring cfg-clear clears. Configuring cfg-disable disables. Configuring cfg-none none. Configuring cfg-save saves. Configuring cfg-transaction-abort aborts transaction
<i>member-entry</i>	Configures the WWN of the device to be added to the zone alias
<i>member-zone</i>	Configure the name of a zone to be added to the configuration

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

`http://host:80/rest/config/running/zoning/defined-configuration`

Request body

None

Response body

```
<defined-configuration
y:self="/rest/config/running/zoning/defined-configuration">
  <cfg y:self="/rest/config/running/zoning/defined-configuration/cfg/cfg1">
    <cfg-name>cfg1</cfg-name>
    <member-zone
y:self="/rest/config/running/zoning/defined-configuration/cfg/cfg1/member-zone/z
one2">
      <zone-name>zone2</zone-name>
    </member-zone>
  </cfg>
  <zone y:self="/rest/config/running/zoning/defined-configuration/zone/zone5">
    <zone-name>zone5</zone-name>
    <member-entry
y:self="/rest/config/running/zoning/defined-configuration/zone/zone5/member-entr
y/alias1">
      <entry-name>alias1</entry-name>
    </member-entry>
  </zone>
  <alias
y:self="/rest/config/running/zoning/defined-configuration/alias/alias1">
    <alias-name>alias1</alias-name>
    <member-entry
y:self="/rest/config/running/zoning/defined-configuration/alias/alias1/member-en
try/10:00:00:00:00:00:01">
      <alias-entry-name>10:00:00:00:00:00:01</alias-entry-name>
    </member-entry>
  </alias>
</defined-configuration>
```

The following is an example of the POST operation to create a new zone configuration

URI

`http://host:80/rest/config/running/zoning/defined-configuration`

Request body

```
<cfg>
  <cfg-name>cfg1</cfg-name>
</cfg>
```

Response body

None

The following is an example of the DELETE operation to remove a zoning alias.

URI

hhttp://host:80/rest/config/running/zoning/defined-configuration/alias/alias2

Request body

None

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

zoning/enabled-configuration

Configures, modifies, or retrieves zoning enabled DB entry commands.

Resource URIs

URI	Description
<base_URI>/config/running/zoning	Zoning commands
<base_URI>/config/running/zoning/defined-configuration	Defined DB entries
<base_URI>/config/running/zoning/enabled-configuration	Enabled DB entries

Parameters

Name	Description
<i>cfg-name</i>	Specifies the name of the zone configuration
<i>default-zone-access</i>	Specifies the default zone access. Supported configurations are allaccess and noaccess . Configuring allaccess sets the default zone access mode to "All Access". Each device can access all other devices attached to the VCS Fabric. Configuring Noaccess sets the default zone access mode to "No Access". No device can access any other device in the VCS Fabric
<i>cfg-action</i>	Defines configuration action - list the supported ones. cfg-clear (Clear), cfg-disable (Disable), cfg-none (None), cfg-save (Save) or cfg-transaction-abort (Transaction abort)

Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

Examples

The following is an example of the GET operation to retrieve the configuration details.

URI

```
http://host:80/rest/config/running/zoning/enabled-configuration
```

Request body

None

Response body

```
<enabled-configuration
y:self="/rest/config/running/zoning/enabled-configuration">
  <cfg-name>" "</cfg-name>
  <default-zone-access>allaccess</default-zone-access>
  <cfg-action>cfg-save</cfg-action>
</enabled-configuration>
```

History

Release version	History
5.0.0	The API call was introduced.

Operational APIs

The URI `http://host:80/rest/operational-state` is used to perform the Custom RPC operations defined in the YANG.

activate-status

Retrieves the firmware activation status.

Resource URIs

URI	Description
<base_URI>/operational-state/activate-status	Retrieves the firmware activation status

Parameters

Name	Description
overall-status	Displays overall activation status on the switch
rbridge-id	The RBridge ID
status	Displays the activation status for a particular RBridge ID

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/activate-status`

Request body

```
<activate-status></activate-status>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <overall-status>0</overall-status>
  <activate-entries>
    <rbridge-id>54</rbridge-id>
    <status>0</status>
  </activate-entries>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

bn-config-cmd

Copies configuration data to or from the system.

Resource URIs

URI	Description
<base_URI>/operational-state/bn-config-cmd	Copy configuration data to or from the system

Parameters

Name	Description
session-id	This id is used along with bn-config-cmd-status API to get the status of this operation (inprogress/complete)
status	Displays the status of this operation (inprogress/complete)

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/bn-config-cmd

Request body

```
<bn-config-cmd>
  <src>running-config</src>
  <dest>startup-config</dest>
</bn-config-cmd>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras'>
  <session-id>0</session-id>
  <status>in-progress</status>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

bna-config-cmd-status

Retrieves the status of a previous configuration command.

Resource URIs

URI	Description
<base_URI>/operational-state/bna-config-cmd-status	Retrieves the status of a previous configuration command

Parameters

Name	Description
status	Shows the status of API bna-config-cmd (completed/inprogress)
status-string	Displays BNA config command status

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/bna-config-cmd-status
```

Request body

```
<bna-config-cmd-status>
  <session-id>0</session-id>
</bna-config-cmd-status>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras'>
  <status>completed</status>
  <status-string></status-string>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

dad-status

Displays the current status of firmware download.

Resource URIs

URI	Description
<base_URI>/operational-state/dad-status	Displays the current status of firmware download

Parameters

Name	Description
<i>index</i>	Displays the index number
<i>date-and-time-info</i>	Displays the date and time information
<i>message</i>	Displays the status message
<i>dad-last-state</i>	Displays the dad last state status as dad-in-progress , dad-failed or dad-completed

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/dad-status
```

Request body

```
<dad-status></dad-status>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <dad-status-entries>
    <index>1</index>
    <date-and-time-info>Fri Oct 25 21:01:12 GMT 2013</date-and-time-info>
    <message>DHCP Auto-deployment enabled.</message>
  </dad-status-entries>
  <dad-status-entries>
    <index>2</index>
    <date-and-time-info>Fri Oct 25 21:09:57 GMT 2013</date-and-time-info>
    <message>DHCP Auto-deployment failed during DHCP process.</message>
  </dad-status-entries>
  <dad-status-entries>
    <index>3</index>
    <date-and-time-info>Thu Mar 13 05:15:06 SCT 2014</date-and-time-info>
    <message>DHCP Auto-deployment failed to enable.</message>
  </dad-status-entries>
  <dad-status-entries>
    <index>14</index>
    <date-and-time-info>Thu Mar 13 19:45:10 SCT 2014</date-and-time-info>
    <message>DHCP Auto-deployment failed to enable.</message>
  </dad-status-entries>
</output>
```

```

</dad-status-entries>
<dad-status-entries>
  <index>15</index>
  <date-and-time-info>Thu Mar 13 20:24:50 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>34</index>
  <date-and-time-info>Sun Mar 16 15:53:23 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>35</index>
  <date-and-time-info>Sun Mar 16 16:32:33 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>36</index>
  <date-and-time-info>Sun Mar 16 17:13:51 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>37</index>
  <date-and-time-info>Sun Mar 16 18:01:41 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>38</index>
  <date-and-time-info>Sun Mar 16 18:46:12 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>39</index>
  <date-and-time-info>Sun Mar 16 19:31:00 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>40</index>
  <date-and-time-info>Sun Mar 16 20:16:07 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>41</index>
  <date-and-time-info>Sun Mar 16 20:59:21 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>42</index>
  <date-and-time-info>Sun Mar 16 21:41:38 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-last-state>dad-failed</dad-last-state>
</output>

```

History

Release version	History
5.0.0	The API call was introduced.

fcoe-get-interface

Retrieves the FCoE interface information.

Resource URIs

URI	Description
<base_URI>/operational-state/fcoe-get-interface	Retrieves the FCoE interface information

Parameters

Name	Description
<i>fcoe-intf-total-interfaces</i>	Displays the total number of interfaces whose details are being returned

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/fcoe-get-interface
```

Request body

```
<fcoe-intf-total-interfaces></fcoe-intf-total-interfaces>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fcoe-ext'>
  <fcoe-intf-total-interfaces>0</fcoe-intf-total-interfaces>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

fcoe-get-login

Retrieves the login information on FCoE End nodes that have logged in to the managed device.

Resource URIs

URI	Description
<base_URI>/operational-state/fcoe-get-login	Retrieves the login information on FCoE End nodes that have logged in to the managed device

Parameters

Name	Description
fcoe-login-total-logins	Displays the total number of devices logged in

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/fcoe-get-login
```

Request body

```
<fcoe-get-login></fcoe-get-login>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fcoe-ext'>
  <fcoe-login-total-logins>0</fcoe-login-total-logins>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

firmware-download

Retrieves the firmware level commands.

Resource URIs

URI	Description
<base_URI>/operational-state/firmware-download	Retrieves the firmware level commands

Parameters

Name	Description
rbridge-id	Displays the Rbridge ID for the switch where firmware download initiated
fwdl-status	Displays the status. 0 or 1 - Success. Any negative value is error
fwdl-msg	0 - Success but disruptive/non-ISSU upgrade, 1 - Success and ISSU upgrade. Any negative value is error.

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/firmware-download

Request body (For coldboot)

```
<firmware-download>
  <scp>
    <user>fvt</user>
    <password>pray4green</password>
    <host>10.31.2.25</host>
    <directory>/buildsjc/sre/SQA/nos/nos6.0.1/nos6.0.1_bld20</directory>
  </scp>
  <rbridge-id>6</rbridge-id>
  <coldboot></coldboot>
</firmware-download>
```

Request body (For ISSU)

```
<firmware-download xmlns="urn:brocade.com:mgmt:brocade-firmware">
  <ftp>
    <user>fvt</user>
    <password>pray4green</password>
    <host>10.31.2.27</host>
    <directory>/proj/sj_eng/defects/gpai/clone_dist</directory>
  </ftp>
  <rbridge-id>all</rbridge-id>
  <auto-activate/>
</firmware-download>
```


Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <cluster-output>
    <rbridge-id>6</rbridge-id>
    <fwdl-status>0</fwdl-status>
    <fwdl-msg>Disruptive.</fwdl-msg>
  </cluster-output>
  <fwdl-cmd-status>0</fwdl-cmd-status>
  <fwdl-cmd-msg>Logical-chassis firmware download initiated.</fwdl-cmd-msg>
</output>
```

History

Release version	History
6.0.1	The API call was introduced.
6.0.1a	The API call was modified to add the option <i>auto-activate</i> for ISSU firmware-download.

fwdl-status

Retrieves the firmware download status.

Resource URIs

URI	Description
<base_URI>/operational-state/fwdl-status	Retrieves the firmware download status

Parameters

Name	Description
<i>fwdl-state</i>	Displays the firmware download state
<i>number-of-entries</i>	Specifies the number of status entries
<i>index</i>	Displays the sequence number for the message
<i>blade-name</i>	Displays the name of the blade
<i>message-id</i>	Displays the message identifier
<i>date-and-time-info</i>	Displays the date and time of the message. The format is YYYY-MM-DD/HH:MM:SS.SSSS
<i>message</i>	Displays the textual description of the status

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/fwdl-status
```

Request body

```
<fwdl-status></fwdl-status>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <fwdl-state>completed</fwdl-state>
  <number-of-entries>18</number-of-entries>
  <fwdl-entries>
    <index>1</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-06-23/19:31:31</date-and-time-info>
    <message>Firmware install begins.</message>
  </fwdl-entries>
  <fwdl-entries>
    <index>2</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
```

```
<date-and-time-info>2014-06-23/19:34:44</date-and-time-info>
<message>Firmware install ends.</message>
</fwdl-entries>
<fwdl-entries>
  <index>3</index>
  <blade-name>SW/1</blade-name>
  <message-id>0</message-id>
  <date-and-time-info>2014-06-23/19:34:44</date-and-time-info>
  <message>Firmware install begins.</message>
</fwdl-entries>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-arp

Retrieves the ARP cache information.

Resource URIs

URI	Description
<base_URI>/operational-state/get-arp	Retrieves the ARP cache details

Parameters

Name	Description
<i>ip-address</i>	Displays the IP address of the ARP entry
<i>mac-address</i>	Displays the MAC address of the ARP entry
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>is-resolved</i>	Indicates whether the ARP entry is resolved or not
<i>age</i>	Displays the age of the ARP entry
<i>entry-type</i>	Displays the type of the ARP entry

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-arp

Request body

```
<get-arp></get-arp>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-arp'>
  <arp-entry>
    <ip-address>20.0.0.122</ip-address>
    <mac-address>0005.3379.407a</mac-address>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
    <is-resolved>true</is-resolved>
    <age>03:16:05</age>
    <entry-type>dynamic</entry-type>
  </arp-entry>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-contained-in-ID

Retrieves enclosure related information on embedded platforms.

Resource URIs

URI	Description
<base_URI>/operational-state/get-contained-in-ID	Retrieves enclosure related information on embedded platforms.

Parameters

Name	Description
contained-in-ID	Provides present slot ID of switch

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-contained-in-ID

Request body

```
<get-contained-in-ID></get-contained-in-ID>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-Enclosure-show'>
  <contained-in-ID>Bay 7</contained-in-ID>
</output>
```

History

Release version	History
5.0.1	The API call was introduced.

get-flexports

Retrieves the list of flexports

Resource URIs

URI	Description
<base_URI>/operational-state/get-flexports	Retrieves the list of flexports

Parameters

Name	Description
port-id	Retrieves the list of flexports

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-flexports

Request body

```
<get-flexports></get-flexports>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-hardware'>
  <flexport-list>
    <port-id>7/0/1</port-id>
    <port-id>7/0/2</port-id>
    <port-id>7/0/3</port-id>
    <port-id>7/0/4</port-id>
    <port-id>7/0/5</port-id>
    <port-id>7/0/7</port-id>
    <port-id>7/0/6</port-id>
    <port-id>7/0/8</port-id>
    <port-id>7/0/17</port-id>
    <port-id>7/0/18</port-id>
    <port-id>7/0/19</port-id>
    <port-id>7/0/20</port-id>
    <port-id>7/0/21</port-id>
    <port-id>7/0/22</port-id>
    <port-id>7/0/40</port-id>
    <port-id>7/0/41</port-id>
    <port-id>7/0/45</port-id>
    <port-id>7/0/46</port-id>
    <port-id>7/0/47</port-id>
    <port-id>7/0/48</port-id>
  </flexport-list>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-interface-detail

Retrieves operational data for all the VLANs, physical interfaces and port-channels.

Resource URIs

URI	Description
<base_URI>/operational-state/get-interface-detail	Retrieves operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN

Parameters

Name	Description
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>port-role</i>	Displays the current role that the particular interface is playing. This is applicable only for physical interfaces
<i>port-mode</i>	Displays the operational mode of the particular interface. This is applicable only for physical interfaces or port-channel interfaces
<i>if-name</i>	Displays the interface display name as in MIB-II's ifTable. However interface-name and interface-type values of this instance forms fully qualified name for this interface
<i>if-state</i>	Displays the current operational state of this interface
<i>line-protocol-state</i>	Displays the 'Line protocol' state of the interface
<i>line-protocol-state-info</i>	Displays the reason for the current line protocol state of the interface
<i>hardware-type</i>	Displays the type of the interface
<i>current-hardware-address</i>	Displays the address of the interface at its protocol sub-layer
<i>logical-hardware-address</i>	Displays the address of the interface at its protocol sub-layer
<i>ifindex</i>	A unique value, greater than zero, for each interface
<i>mtu</i>	Displays the IP MTU value of the interface
<i>actual-line-speed</i>	Displays the actual line speed of this interface
<i>configured-line-speed</i>	Displays the administratively configured line speed of the interface
<i>line-duplex-state</i>	Displays the 'Line duplex state' of the interface
<i>flow-control</i>	Displays the 'Flow control' for the interface
<i>queuing-strategy</i>	Displays the 'Queuing strategy' for the interface
<i>ifHCInOctets</i>	Displays the total number of octets received on the interface, including framing characters
<i>ifHCInUcastPkts</i>	Displays the number of packets, delivered by this sub-layer to a higher (sub-)layer, which were not addressed to a multicast or broadcast address at this sub-layer
<i>ifHCInMulticastPkts</i>	Displays the number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a multicast address at the sub-layer. For a MAC layer protocol, this includes both Group and Functional addresses

Name	Description
<i>ifHCInBroadcastPkts</i>	Displays the number of packets, delivered by the sub-layer to a higher (sub-)layer, which were addressed to a broadcast address at the sub-layer
<i>ifHCInErrors</i>	For packet-oriented interfaces, the number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol. For character-oriented or fixed-length interfaces, the number of inbound transmission units that contained errors preventing them from being deliverable to a higher-layer protocol
<i>ifHCOctets</i>	Displays the total number of octets transmitted out of the interface, including framing characters
<i>ifHCOUcastPkts</i>	Displays the total number of packets that higher-level protocols requested be transmitted, and which were not addressed to a multicast or broadcast address at the sub-layer, including those that were discarded or not sent
<i>ifHCOUmulticastPkts</i>	Displays the total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent. For a MAC layer protocol, this includes both Group and Functional addresses
<i>ifHCOUbroadcastPkt</i>	Displays the total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent
<i>ifHCOUerrors</i>	For packet-oriented interfaces, the number of outbound packets that could not be transmitted because of errors. For character-oriented or fixed-length interfaces, the number of outbound transmission units that could not be transmitted because of errors
<i>ip-mtu</i>	Displays the IP MTU value of this interface
<i>line-protocol-exception-info</i>	Displays the 'Exception information' of line protocol
<i>media-type</i>	Displays the media type
<i>wavelength</i>	Displays the wavelength of pluggable media
<i>if-description</i>	Displays the textual string containing information about the interface
<i>queuing-strategy</i>	Displays the 'Queuing strategy' for this interface

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-interface-detail`

Request body

```
<get-interface-detail></get-interface-detail>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <interface>
    <interface-type>FortyGigabitEthernet</interface-type>
    <interface-name>1/0/49</interface-name>
```

```

<port-role>edge</port-role>
<port-mode>unknown</port-mode>
<if-name>FortyGigabitEthernet 1/0/49</if-name>
<if-state>up</if-state>
<line-protocol-state>down</line-protocol-state>
<line-protocol-state-info>(link protocol down)</line-protocol-state-info>
<hardware-type>ethernet</hardware-type>
<current-hardware-address>00:27:f8:ce:5c:4e</current-hardware-address>
<logical-hardware-address>00:27:f8:ce:5c:4e</logical-hardware-address>
<ifindex>4496695488</ifindex>
<mtu>2500</mtu>
<actual-line-speed>nil</actual-line-speed>
<configured-line-speed>auto</configured-line-speed>
<line-duplex-state>full</line-duplex-state>
<flow-control></flow-control>
<queuing-strategy>fifo</queuing-strategy>
<ifHCInOctets>0</ifHCInOctets>
<ifHCInUcastPkts>0</ifHCInUcastPkts>
<ifHCInMulticastPkts>0</ifHCInMulticastPkts>
<ifHCInBroadcastPkts>0</ifHCInBroadcastPkts>
<ifHCInErrors>0</ifHCInErrors>
<ifHCOutOctets>0</ifHCOutOctets>
<ifHCOutUcastPkts>0</ifHCOutUcastPkts>
<ifHCOutMulticastPkts>0</ifHCOutMulticastPkts>
<ifHCOutBroadcastPkts>0</ifHCOutBroadcastPkts>
<ifHCOutErrors>0</ifHCOutErrors>
</interface>
</output>

```

If the entire information cannot be retrieved in a single execution, the last lines of output says `has-more=true`.

```

<has-more xmlns="urn:brocade.com:mgmt:brocade-interface-ext">true</has-more>
</rpc-reply>

```

In such cases the remaining information can be retrieved using "last-rcvd-interface" as shown in the request body below.

Request body

```

<get-interface-detail>
  <last-rcvd-interface>
    <interface-type>TenGigabitEthernet</interface-type>
    <interface-name>7/0/33</interface-name>
  </last-rcvd-interface>
</get-interface-detail>

```

The API can be used to retrieve information regarding a specific port by applying filter as in the request body below.

Request body

```

<get-interface-detail>
  <interface-type>TenGigabitEthernet</interface-type>
  <interface-name>7/0/22</interface-name>
</get-interface-detail>

```

History

Release version	History
5.0.0	The API call was introduced.

get-interface-switchport

Retrieves switch-port/Layer 2 characteristics of the interfaces configured as switchport in the managed device.

Resource URIs

URI	Description
<base_URI>/operational-state/get-interface-switchport	Returns switch-port or Layer 2 characteristics of all the interfaces in the managed device

Parameters

Name	Description
<i>interface-name</i>	Displays the Interface value
<i>interface-type</i>	Displays the type of the interface
<i>mode</i>	Displays the mode of the port-channel
<i>fcoe-port-enabled</i>	Displays the FCoE capability is enabled on the interface
<i>ingress-filter-enabled</i>	Indicates if the 'Ingress filtering' is enabled for the interface
<i>acceptable-frame-type</i>	Displays the switch-port ingress Frame admission policy - whether only tagged Frames are allowed or all
<i>default-vlan</i>	Displays the 'default vlan' identifier value for this switch-port
<i>vlanid</i>	Displays the list of active VLAN identifiers

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-interface-switchport

Request body

```
<get-interface-switchport></get-interface-switchport>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <switchport>
    <interface-name>195/2/1</interface-name>
    <interface-type>FortyGigabitEthernet</interface-type>
    <mode>access</mode>
    <fcoe-port-enabled>>false</fcoe-port-enabled>
    <ingress-filter-enabled>>true</ingress-filter-enabled>
    <acceptable-frame-type>admit-all</acceptable-frame-type>
    <default-vlan>1</default-vlan>
    <active-vlans>
      <vlanid>1</vlanid>
```

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```
    </active-vlans>  
  </switchport>  
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-ip-interface

Retrieves the IP interface details.

Resource URIs

URI	Description
<base_URI>/operational-state/get-ip-interface	Retrieves the IP interface details

Parameters

Name	Description
<i>interface-type</i>	Displays the network interface name in a VCS environment in the format: [rbridge-id]/slot/port
<i>interface-name</i>	Displays the Interface value
<i>if-name</i>	Displays the interface display name as in MIB-II's ifTable. However interface-name and interface-type values of this instance forms fully qualified name for this interface
<i>if-state</i>	Displays the current operational state of the interface
<i>line-protocol-state</i>	Displays the 'Line protocol' state of the interface
<i>ip-address</i>	Displays the IP address for the management interface
<i>ipv4</i>	Displays the IP address in dotted decimal/Mask (A.B.C.D/M)
<i>ipv4-type</i>	Indicates whether IP address is primary/secondary and corresponding Broadcast IP
<i>broadcast</i>	Displays the broadcast IP Address
<i>ip-mtu</i>	Displays the MTU type
<i>vrf</i>	Displays the VRF name

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-ip-interface
```

Request body

```
<get-ip-interface></get-ip-interface>
```

Response body

```
<output>
  <interface>
    <interface-type>FortyGigabitEthernet</interface-type>
    <interface-name>2/0/49</interface-name>
    <if-name>FortyGigabitEthernet 2/0/49</if-name>
```

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```
<if-state>up</if-state>
<line-protocol-state>down</line-protocol-state>
<ip-address>
  <ipv4>unassigned</ipv4>
</ip-address>
</interface>
<interface>
  <interface-type>FortyGigabitEthernet</interface-type>
  <interface-name>2/0/50</interface-name>
  <if-name>FortyGigabitEthernet 2/0/50</if-name>
  <if-state>up</if-state>
  <line-protocol-state>down</line-protocol-state>
  <ip-address>
    <ipv4>unassigned</ipv4>
  </ip-address>
</interface>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-last-config-update-time

Retrieves the time stamp of the last configuration change on the system.

Resource URIs

URI	Description
<base_URI>/operational-state/get-last-config-update-time	Retrieves the time stamp of the last configuration change

Parameters

Name	Description
last-config-update-time	Displays the time stamp of the last configuration change

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-last-config-update-time
```

Request body

```
<get-last-config-update-time></get-last-config-update-time>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>
  <last-config-update-time>1402481614</last-config-update-time>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-last-config-update-time-for-xpaths

Retrieves the time stamp of the last configuration change for xpaths.

Resource URIs

URI	Description
<base_URI>/operational-state/get-last-config-update-time-for-xpaths	Retrieves the time stamp of the last configuration change for xpaths

Parameters

Name	Description
<i>xpath-string</i>	Displays the xpath string
<i>last-config-update-time</i>	Indicates the time stamp of the last configuration change for xpaths

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-last-config-update-time-for-xpaths

Request body

```
<get-last-config-update-time-for-xpaths></get-last-config-update-time-for-xpaths>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>
  <last-config-update-time-for-xpaths>
    <xpath-string></xpath-string>
    <last-config-update-time>1402481614</last-config-update-time>
  </last-config-update-time-for-xpaths>
  <last-config-update-time-for-xpaths>
    <xpath-string>/cee-map</xpath-string>
    <last-config-update-time>1401508522</last-config-update-time>
  </last-config-update-time-for-xpaths>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-lldp-neighbor-detail

Retrieves the neighbor details of all the interfaces of the managed entity.

Resource URIs

URI	Description
<base_URI>/operational-state/get-lldp-neighbor-detail	Retrieves the neighbor details of all the interfaces of the managed entity

Parameters

Name	Description
<i>local-interface-name</i>	Indicates the local interface display name
<i>local-interface-ifindex</i>	Indicates the local interface IfIndex
<i>local-interface-mac</i>	Indicates the local interface MAC address
<i>remote-interface-name</i>	Indicates the remote interface display name
<i>remote-interface-mac</i>	Indicates the remote interface MAC address
<i>dead-interval</i>	Indicates the dead interval
<i>remaining-life</i>	Indicates the remaining life period
<i>remote-chassis-id</i>	Indicates the remote chassis ID
<i>lldp-pdu-transmitted</i>	Displays the number of LLDP PDUs transmitted from the interface
<i>lldp-pdu-received</i>	Displays the number of LLDP PDUs received by the interface
<i>remote-system-name</i>	Indicates the remote system name

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-lldp-neighbor-detail

Request body

```
<get-lldp-neighbor-detail></get-lldp-neighbor-detail>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-lldp-ext'>
  <lldp-neighbor-detail>
    <local-interface-name>Te 7/0/1</local-interface-name>
    <local-interface-ifindex>201334784</local-interface-ifindex>
    <local-interface-mac>0005.33ee.8006</local-interface-mac>
    <remote-interface-name>TenGigabitEthernet 14/1/10</remote-interface-name>
    <remote-interface-mac>0005.3379.6de7</remote-interface-mac>
    <dead-interval>120</dead-interval>
```

```

    <remaining-life>117</remaining-life>
    <remote-chassis-id>0005.3379.6d58</remote-chassis-id>
    <lldp-pdu-transmitted>373</lldp-pdu-transmitted>
    <lldp-pdu-received>372</lldp-pdu-received>
    <remote-system-name>M4</remote-system-name>
  </lldp-neighbor-detail>
  <lldp-neighbor-detail>
    <local-interface-name>Te 7/0/3</local-interface-name>
    <local-interface-ifindex>201351168</local-interface-ifindex>
    <local-interface-mac>0005.33ee.8008</local-interface-mac>
    <remote-interface-name>port1</remote-interface-name>
    <remote-interface-mac>0005.3348.8e4f</remote-interface-mac>
    <dead-interval>120</dead-interval>
    <remaining-life>92</remaining-life>
    <remote-chassis-id>0005.3348.8e4f</remote-chassis-id>
    <lldp-pdu-transmitted>373</lldp-pdu-transmitted>
    <lldp-pdu-received>366</lldp-pdu-received>
  </lldp-neighbor-detail>
  <lldp-neighbor-detail>
    <local-interface-name>Te 7/0/31</local-interface-name>
    <local-interface-ifindex>201580544</local-interface-ifindex>
    <local-interface-mac>0005.33ee.8024</local-interface-mac>
    <remote-interface-name>TenGigabitEthernet 6/0/31</remote-interface-name>
    <remote-interface-mac>0005.33e7.2803</remote-interface-mac>
    <dead-interval>120</dead-interval>
    <remaining-life>116</remaining-life>
    <remote-chassis-id>0005.33e7.27e0</remote-chassis-id>
    <lldp-pdu-transmitted>373</lldp-pdu-transmitted>
    <lldp-pdu-received>373</lldp-pdu-received>
    <remote-system-name>RIGEL-MOR</remote-system-name>
  </lldp-neighbor-detail>
  <has-more>false</has-more>
</output>

```

History

Release version	History
6.0.1	The API call was introduced.

get-mac-acl-for-intf

Retrieves the MAC ACL applied on the interfaces.

Resource URIs

URI	Description
<base_URI>/operational-state/get-mac-acl-for-intf	Retrieves the MAC ACL applied on the interfaces

Parameters

Name	Description
<i>interface-name</i>	Displays the interface name
<i>interface-type</i>	Displays the interface type
<i>policy-name</i>	Displays the MAC ACL policy name

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-mac-acl-for-intf
```

Request body

```
<get-mac-acl-for-intf></get-mac-acl-for-intf>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-mac-access-list'>
  <interface>
    <interface-name>1/0/7</interface-name>
    <interface-type>TenGigabitEthernet</interface-type>
    <ingress-policy>
      <policy-name>stdmacacl</policy-name>
    </ingress-policy>
    <egress-policy>
      <policy-name>stdmacacl</policy-name>
    </egress-policy>
  </interface>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-mac-address-table

Retrieves the operational data for a given MAC entry.

Resource URIs

URI	Description
<base_URI>/operational-state/get-mac-address-table	Returns operational data for a given MAC entry and the corresponding details of that MAC entry

Parameters

Name	Description
<i>vlanid</i>	Displays the VLAN ID
<i>mac-address</i>	Displays the MAC address
<i>mac-type</i>	Displays the MAC type
<i>mac-state</i>	Displays the MAC state
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-mac-address-table
```

Request body

```
<get-mac-address-table></get-mac-address-table>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-mac-address-table'>
  <mac-address-table>
    <vlanid>100</vlanid>
    <mac-address>00:11:22:22:33:33</mac-address>
    <mac-type>static</mac-type>
    <mac-state>inactive</mac-state>
    <forwarding-interface>
      <interface-type>port-channel</interface-type>
      <interface-name>25</interface-name>
    </forwarding-interface>
  </mac-address-table>
</output>
```

If the entire information cannot be retrieved in a single execution, the last lines of output says `has-more=true`. In such cases the remaining information can be retrieved using "last-rcvd-interface" as shown in the request body below.

Request body

```
<get-interface-detail>
  <last-rcvd-interface>
    <interface-type>TenGigabitEthernet</interface-type>
    <interface-name>7/0/33</interface-name>
  </last-rcvd-interface>
</get-interface-detail>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-mac-address-table'>
  <mac-address-table>
    <vlanid>53</vlanid>
    <mac-address>00:05:33:48:8e:4f</mac-address>
    <mac-type>dynamic</mac-type>
    <mac-state>active</mac-state>
    <forwarding-interface>
      <interface-type>TenGigabitEthernet</interface-type>
      <interface-name>7/0/3</interface-name>
    </forwarding-interface>
  </mac-address-table>
  <has-more>>false</has-more>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the has-more information details.

get-media-detail

Retrieves the media properties of all the interfaces.

Resource URIs

URI	Description
<base_URI>/operational-state/get-media-detail	Retrieves the media properties of all the interfaces

Parameters

Name	Description
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>encoding</i>	Displays the type of encoding used to transmit the data on this interface
<i>vendor-name</i>	Displays the vendor of the interface
<i>vendor-oui</i>	Displays the vendor IEEE company ID
<i>vendor-pn</i>	Displays the vendor part number
<i>vendor-rev</i>	Displays the vendor revision level
<i>distance</i>	Displays the SFP distance
<i>media-form-factor</i>	Displays the media form factor
<i>wavelength</i>	Displays the wavelength of pluggable media
<i>serial-no</i>	Displays the serial number
<i>temperature</i>	Displays the module temperature (degrees C)
<i>date-code</i>	Displays the vendor's manufacturing date code
<i>voltage</i>	This indicates the supply voltage (Volts)
<i>current</i>	Displays the laser diode drive current (milliAmps)
<i>tx-power</i>	Displays the transmitted optical power (microWatts)
<i>rx-power</i>	Displays the received optical power (microWatts)

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-media-detail
```

Request body

```
<get-media-detail></get-media-detail>
```


Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <interface>
    <interface-type>FortyGigabitEthernet</interface-type>
    <interface-name>54/0/50</interface-name>
    <qsfp>
      <speed>40Gbps</speed>
      <connector>mpo-parallel-optic</connector>
      <encoding>ieee-802-3ab</encoding>
      <vendor-name>BROCADE</vendor-name>
      <vendor-oui>00:05:1e</vendor-oui>
      <vendor-pn>57-1000128-01</vendor-pn>
      <vendor-rev>A</vendor-rev>
      <distance>short-dist</distance>
      <media-form-factor>unknown</media-form-factor>
      <wavelength>17000</wavelength>
      <serial-no>LTA112051000713</serial-no>
      <date-code>120202</date-code>
      <temperature>38</temperature>
      <voltage>3291.9</voltage>
      <current>7.138</current>
      <tx-power>0.0</tx-power>
      <rx-power>872.9</rx-power>
    </qsfp>
  </interface>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-nameserver-detail

Retrieves the detailed information of the devices stored in the name server database.

Resource URIs

URI	Description
<base_URI>/operational-state/get-nameserver-detail	Retrieves the detailed information of the devices stored in the name server database

Parameters

Name	Description
<i>nameserver-portid</i>	Displays the list of all Nx_Ports registered in the name server database of this managed device
<i>nameserver-portname</i>	Displays the Port_Name (WWN) of this Nx_Port
<i>nameserver-nodename</i>	Displays the Node_Name (WWN) of this Nx_Port
<i>nameserver-cos</i>	Displays the Fibre Channel Class of service supported by the device
<i>nameserver-scr</i>	Displays the state change notifications that the device has registered for
<i>nameserver-fc4s</i>	Displays the Fibre Channel FC4 services supported by the device
<i>nameserver-portsymb</i>	Displays the user-defined name of this port
<i>nameserver-nodesymb</i>	Displays the user-defined name of the node of this port
<i>nameserver-fabric-portname</i>	Displays the Fabric port name (WWN) of this port
<i>nameserver-permanent-portname</i>	Displays the type and role of the device
<i>nameserver-devicetype</i>	Displays the type and role of the device
<i>nameserver-porttype</i>	Displays the Fibre Channel port type
<i>nameserver-index</i>	Displays the Port index number
<i>nameserver-sharearea</i>	Indicates whether or not the port utilizes the Brocade shared area method of fibre channel addressing
<i>nameserver-redirect</i>	Indicates whether or not the device is involved in Brocade frame redirection zoning
<i>nameserver-xlatedomain</i>	Indicates whether or not the device enters the fabric via a translate domain
<i>nameserver-connected-via-ag</i>	Indicates whether or not the device enters the fabric via access gateway
<i>nameserver-ag-base-device</i>	Indicates whether or not the device is a base access gateway device
<i>nameserver-real</i>	Indicates whether or not the device entered in the fabric via AG is a physical device
<i>nameserver-cascaded</i>	Indicates whether or not the device enters the fabric via a cascaded AG

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-nameserver-detail`

Request body

```
<get-nameserver-detail></get-nameserver-detail>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-nameserver'>
  <show-nameserver>
    <nameserver-portid>0d0000</nameserver-portid>
    <nameserver-portname>20:00:8C:7C:FF:21:C0:00</nameserver-portname>
    <nameserver-nodename>20:00:8C:7C:FF:21:C0:01</nameserver-nodename>
    <nameserver-cos>3</nameserver-cos>
    <nameserver-scr>0</nameserver-scr>
    <nameserver-fc4s>FCP </nameserver-fc4s>
    <nameserver-portsymb>[7] "13/0/52"</nameserver-portsymb>
    <nameserver-nodesymb>NULL</nameserver-nodesymb>
    <nameserver-fabric-portname>50:02:7F:8C:31:32:30:82</nameserver-fabric-portname>
    <nameserver-permanent-portname>20:00:8C:7C:FF:21:C0:00</nameserver-permanent-portname>
    <nameserver-devicetype>Physical Target</nameserver-devicetype>
    <nameserver-porttype>N</nameserver-porttype>
    <nameserver-index>130</nameserver-index>
    <nameserver-sharearea>Yes</nameserver-sharearea>
    <nameserver-redirect>No</nameserver-redirect>
    <nameserver-xlatedomain>No</nameserver-xlatedomain>
    <nameserver-connected-via-ag>No</nameserver-connected-via-ag>
    <nameserver-ag-base-device>No</nameserver-ag-base-device>
    <nameserver-real>No</nameserver-real>
    <nameserver-cascaded>No</nameserver-cascaded>
  </show-nameserver>
</output>
```

History

Release version	History
5.0.1	The API call was introduced.

get-netconf-client-capabilities

Retrieves the session details, vendor details, IP details, time etc for all connected NETCONF clients.

Resource URIs

URI	Description
<base_URI>/operational-state/get-netconf-client-capabilities	Retrieves the vendor information of all the NETCONF clients

Parameters

Name	Description
session-id	Displays the session ID of the NETCONF client session
user-name	Displays the login name of the user for the NETCONF client session
vendor	Displays the vendor name of the NETCONF client session
product	Displays the product name of the NETCONF client session
version	Displays the product version of the NETCONF client session
identity	Displays the identity of the NETCONF client session
host-ip	Displays the IP address of NETCONF client session
time	Displays the login time of NETCONF client session

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-netconf-client-capabilities

Request body

```
<get-netconf-client-capabilities></get-netconf-client-capabilities>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-netconf-ext'>
  <session>
    <session-id>532</session-id>
    <user-name>admin</user-name>
    <vendor>BROCADE</vendor>
    <product>Network Advisor</product>
    <version>12.3.3 build 18</version>
    <identity>Administrator</identity>
    <af-type>IPV4</af-type>
    <host-ip>10.20.237.24</host-ip>
    <time>2015-01-12T11:02:42+00:00</time>
  </session>
```

</output>

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the parameter <i>af-type</i> .

get-port-channel-detail

Retrieves the Link Aggregation Control Protocol (LACP) configuration parameters for all the port-channels in the system.

Resource URIs

URI	Description
<base_URI>/operational-state/get-port-channel-detail	Retrieves the Link Aggregation Control Protocol (LACP) information for all port-channel

Parameters

Name	Description
<i>aggregator-id</i>	Displays the aggregator ID
<i>aggregator-type</i>	Displays the aggregator type
<i>isvlag</i>	Specifies if the aggregator is a vLAG
<i>aggregator-mode</i>	Displays the aggregator mode
<i>system-priority</i>	Displays the System Priority
<i>actor-system-id</i>	Displays the actor system ID
<i>partner-oper-priority</i>	Displays the partner operational priority
<i>partner-system-id</i>	Displays the Partner system ID
<i>admin-key</i>	Displays the Admin key
<i>oper-key</i>	Displays the Operational key
<i>partner-oper-key</i>	Displays the Partner Operational key
<i>rx-link-count</i>	Displays the RX link counter
<i>tx-link-count</i>	Displays the TX link counter
<i>individual-agg</i>	Displays the individual aggregator
<i>ready-agg</i>	Displays the ready aggregator
<i>rbridge-id</i>	Displays the RBridge ID
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>actor-port</i>	Displays the actor port number
<i>sync</i>	Displays the sync-info

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-port-channel-detail

Request body

```
<get-port-channel-detail></get-port-channel-detail>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-lag'>
  <lacp>
    <aggregator-id>6</aggregator-id>
    <aggregator-type>standard</aggregator-type>
    <isvlag>true</isvlag>
    <aggregator-mode>dynamic</aggregator-mode>
    <system-priority>32768</system-priority>
    <actor-system-id>01:e0:52:00:20:00</actor-system-id>
    <partner-oper-priority>32768</partner-oper-priority>
    <partner-system-id>00:05:1e:cd:19:6a</partner-system-id>
    <admin-key>6</admin-key>
    <oper-key>6</oper-key>
    <partner-oper-key>6</partner-oper-key>
    <rx-link-count>4</rx-link-count>
    <tx-link-count>4</tx-link-count>
    <individual-agg>0</individual-agg>
    <ready-agg>1</ready-agg>
    <aggr-member>
      <rbridge-id>122</rbridge-id>
      <interface-type>TenGigabitEthernet</interface-type>
      <interface-name>122/5/13</interface-name>
      <actor-port>524410060933</actor-port>
      <sync>1</sync>
    </aggr-member>
  </lacp>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-port-profile-for-intf

Retrieves the port-profiles applied on ports and port-channels.

Resource URIs

URI	Description
<base_URI>/operational-state/get-port-profile-for-intf	Port-profiles applied on ports and port-channels

Parameters

Name	Description
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>name</i>	Displays the Port-profile name

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-port-profile-for-intf

Request body

```
<get-port-profile-for-intf></get-port-profile-for-intf>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-port-profile-ext'>
  <interface>
    <interface-type>TenGigabitEthernet</interface-type>
    <interface-name>2/0/12</interface-name>
    <port-profile>
      <name>default</name>
    </port-profile>
  </interface>
  <interface>
    <interface-type>TenGigabitEthernet</interface-type>
    <interface-name>2/0/13</interface-name>
    <port-profile>
      <name>default</name>
    </port-profile>
  </interface>
  <has-more>false</has-more>
</output>
```

If the entire information cannot be retrieved in a single execution as the output is huge or crossed designed length of chunk. In such cases the remaining information can be retrieved as shown in the request body below.

Request body

```
<get-port-profile-for-intf>
  <last-received-interface-info>
    <interface-type>TenGigabitEthernet</interface-type>
    <interface-name>18/0/50</interface-name>
  </last-received-interface-info>
</get-port-profile-for-intf>
```

History

Release version	History
5.0.0	The API call was introduced.

get-port-profile-status

Retrieves the port-profiles applied on ports and port-channels.

Resource URIs

URI	Description
<base_URI>/operational-state/get-port-profile-status	Retrieves the port-profiles applied on ports and port-channels

Parameters

Name	Description
<i>name</i>	Displays the profile name
<i>ppid</i>	Indicates the ID of the port-profile
<i>is-active</i>	Indicates if this port-profile is activated or not
<i>mac</i>	Indicates the MAC addresses associated with this port-profile
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-port-profile-status`

Request body

`<get-port-profile-status></get-port-profile-status>`

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-port-profile-ext'>
  <port-profile>
    <name>PP1</name>
    <ppid>2</ppid>
    <is-active>true</is-active>
    <has-more>true</has-more>
    <mac-association>
      <mac>00:00:11:11:22:22</mac>
    </mac-association>
    <mac-association>
      <mac>00:00:11:11:22:23</mac>
    </mac-association>
  </port-profile>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-portchannel-info-by-intf

Displays Link Aggregation Control Protocol (LACP) configuration parameters for an Aggregation Port.

Resource URIs

URI	Description
<base_URI>/operational-state/get-portchannel-info-by-intf	Displays Link Aggregation Control Protocol (LACP) configuration parameters for an Aggregation Port

Parameters

Name	Description
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>actor-port</i>	Displays the actor port number
<i>system-priority</i>	Displays the System Priority
<i>actor-system-id</i>	Displays the Actor system ID
<i>partner-oper-priority</i>	Displays the partner operational priority
<i>partner-system-id</i>	Displays the Partner system ID
<i>actor-priority</i>	Displays the Actor Priority
<i>admin-key</i>	Displays the Admin key
<i>oper-key</i>	Displays the Operational key
<i>receive-machine-state</i>	Displays the state of the 'Receive Machine'
<i>periodic-transmission-machine-state</i>	Displays the state of the 'Periodic Transmission machine'
<i>mux-machine-state</i>	Displays the state of the 'Mux machine'
<i>admin-state</i>	Displays the Admin state
<i>oper-state</i>	Displays the Operational state
<i>partner-oper-state</i>	Displays the Partner Operational state
<i>partner-oper-port</i>	Displays the Partner Operational port
<i>actor-chip-number</i>	Displays the actor chip number
<i>actor-max-deskew</i>	Displays the actor maximum deskew
<i>partner-chip-number</i>	Displays the actor chip number
<i>partner-max-deskew</i>	Displays the partner maximum deskew
<i>actor-brcd-state</i>	Displays the actor BRCD trunk state
<i>partner-brcd-state</i>	Displays the partner BRCD trunk state

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-portchannel-info-by-intf`

Request body

`<get-portchannel-info-by-intf></get-portchannel-info-by-intf>`

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-lag'>
  <lacp>
    <interface-type>FortyGigabitEthernet</interface-type>
    <interface-name>122/8/1</interface-name>
    <actor-port>524204122304</actor-port>
    <system-priority>32255</system-priority>
    <actor-system-id>01:e0:52:00:20:00</actor-system-id>
    <partner-oper-priority>1</partner-oper-priority>
    <partner-system-id>00:00:00:00:00:01</partner-system-id>
    <actor-priority>32768</actor-priority>
    <admin-key>40</admin-key>
    <oper-key>40</oper-key>
    <receive-machine-state>current</receive-machine-state>
    <periodic-transmission-machine-state>slow-periodic</periodic-transmission-machine-state>
    <mux-machine-state>collecting-distributing</mux-machine-state>
    <admin-state>activity aggregation defaulted</admin-state>
    <oper-state>activity aggregation synchronization collecting
distributing</oper-state>
    <partner-oper-state>activity aggregation synchronization collecting
distributing</partner-oper-state>
    <partner-oper-port>1</partner-oper-port>
  </lacp>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-stp-brief-info

Displays spanning tree information.

Resource URIs

URI	Description
<base_URI>/operational-state/get-stp-brief-info	Displays spanning tree information

Parameters

Name	Description
<i>stp-mode</i>	Displays the type of the Spanning Tree Protocol configured on the switch
<i>priority</i>	Displays the Bridge priority
<i>bridge-id</i>	Displays the Bridge ID
<i>hello-time</i>	Displays the interval between two transmissions of BPDU packets sent by the Root Bridge to tell all other switches that it is indeed the Root Bridge (1 to 10 sec)
<i>max-age</i>	Displays the Max Age may be set to ensure that old information does not endlessly circulate through redundant paths in the network, preventing the effective propagation of new information (6 to 40 sec)
<i>forward-delay</i>	Displays the port on the Switch spends this time in the listening state while moving from the blocking state to the forwarding state (4 to 30 sec)
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>spanningtree-enabled</i>	Enables spanning tree
<i>if-index</i>	Displays the interface index
<i>interface-id</i>	Displays the interface ID
<i>if-role</i>	Displays the interface role
<i>if-state</i>	Displays the interface state
<i>external-path-cost</i>	Designated external path cost
<i>internal-path-cost</i>	Designated internal path cost
<i>configured-path-cost</i>	Displays the configured path cost
<i>designated-port-id</i>	Displays the designated port ID
<i>port-priority</i>	Displays the Port priority
<i>designated-bridge-id</i>	Displays the designated bridge ID
<i>port-hello-time</i>	Displays the Port hello time
<i>forward-transitions-count</i>	Displays the number of forward transitions
<i>received-stp-type</i>	Displays the received (rx) stp type
<i>transmitted-stp-type</i>	Displays the transmitted (tx) stp type
<i>edge-port</i>	Displays the edge port mode
<i>auto-edge</i>	Displays the auto edge

Name	Description
<code>admin-edge</code>	Displays the admin edge
<code>edge-delay</code>	Displays the edge delay
<code>configured-root-guard</code>	Displays the configured root guard
<code>oper-root-guard</code>	Displays the operational root guard
<code>boundary-port</code>	Displays the Is boundary
<code>oper-bpdu-guard</code>	Displays the operational BPDU guard
<code>oper-bpdu-filter</code>	Displays the operational BPDU filter
<code>link-type</code>	Displays the spanning tree link type
<code>rx-bpdu-count</code>	Displays the received BPDU count
<code>tx-bpdu-count</code>	Displays the transmitted BPDU count

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-stp-brief-info`

Request body

```
<get-stp-brief-info></get-stp-brief-info>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-xstp-ext'>
  <spanning-tree-info>
    <stp-mode>stp</stp-mode>
    <stp>
      <root-bridge>
        <priority>32768</priority>
        <bridge-id>8000.01e0.5200.0193</bridge-id>
        <hello-time>2</hello-time>
        <max-age>20</max-age>
        <forward-delay>15</forward-delay>
      </root-bridge>
      <bridge>
        <priority>32768</priority>
        <bridge-id>8000.01e0.5200.0193</bridge-id>
        <hello-time>2</hello-time>
        <max-age>20</max-age>
        <forward-delay>15</forward-delay>
      </bridge>
    </stp>
  </spanning-tree-info>
  <has-more>>false</has-more>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-stp-mst-detail

Retrieves RPC to return MSTP details.

Resource URIs

URI	Description
<base_URI>/operational-state/get-stp-mst-detail	Retrieves RPC to return MSTP details

Parameters

Name	Description
<i>cist-root-id</i>	Displays the CIST Root ID
<i>cist-bridge-id</i>	Displays the CIST bridge ID
<i>cist-reg-root-id</i>	Displays the CIST regional root ID
<i>root-forward-delay</i>	Displays the CIST root forward delay
<i>hello-time</i>	Displays the CIST root hello time
<i>max-age</i>	Displays the CIST root maximum age
<i>max-hops</i>	Displays the hops the BPDU will be valid
<i>migrate-time</i>	Displays the migration time
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>spanningtree-enabled</i>	Displays if the spanning tree enabled
<i>if-index</i>	Displays the interface index
<i>interface-id</i>	Displays the interface ID
<i>if-role</i>	Displays the interface role
<i>if-state</i>	Displays the interface state
<i>internal-path-cost</i>	Displays the designated internal path cost
<i>external-path-cost</i>	Displays the designated external path cost
<i>configured-path-cost</i>	Displays the configured path cost
<i>designated-port-id</i>	Displays the designated port ID
<i>port-priority</i>	Displays the port priority
<i>designated-bridge-id</i>	Displays the designated bridge ID
<i>forward-transitions-count</i>	Displays the number of forward transitions
<i>port-hello-time</i>	Displays the Port hello time
<i>received-stp-type</i>	Displays the received (rx) stp type
<i>transmitted-stp-type</i>	Displays the transmitted (tx) stp type
<i>edge-port</i>	Displays the Edge Port mode
<i>auto-edge</i>	Displays the Auto Edge

Name	Description
<i>edge-delay</i>	Displays the Edge delay
<i>admin-edge</i>	Displays the Admin Edge
<i>boundary-port</i>	Displays the Is boundary
<i>configured-root-guard</i>	Displays the configured root guard
<i>oper-root-guard</i>	Displays the operational root guard
<i>oper-bpdu-guard</i>	Displays the operational BPDU guard
<i>oper-bpdu-filter</i>	Displays the operational BPDU filter
<i>link-type</i>	Displays the point-to-point - enable rapid transition
<i>rx-bpdu-count</i>	Displays the received BPDU count
<i>tx-bpdu-count</i>	Displays the transmitted BPDU count
<i>instance-id</i>	Displays the instance ID of the last received spanning-tree instance
<i>msti-root-id</i>	Displays the MSTI Root ID
<i>msti-bridge-id</i>	Displays the MSTI bridge ID
<i>msti-bridge-priority</i>	Displays the MSTI bridge priority
<i>vlan-id</i>	Displays the VLAN ID

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-stp-mst-detail`

Request body

`<get-stp-mst-detail></get-stp-mst-detail>`

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-xstp-ext'>
  <cist>
    <cist-root-id>8000.01e0.5200.05bf</cist-root-id>
    <cist-bridge-id>8000.01e0.5200.05bf</cist-bridge-id>
    <cist-reg-root-id>8000.01e0.5200.05bf</cist-reg-root-id>
    <root-forward-delay>15</root-forward-delay>
    <hello-time>2</hello-time>
    <max-age>20</max-age>
    <max-hops>20</max-hops>
    <migrate-time>3</migrate-time>
    <port>
      <interface-type>TenGigabitEthernet</interface-type>
      <interface-name>2/0/12</interface-name>
      <spanningtree-enabled>>false</spanningtree-enabled>
      <if-index>403046411</if-index>
      <interface-id>32768</interface-id>
      <if-role>disabled</if-role>
    </port>
  </cist>
</output>
```

```

    <if-state>forwarding</if-state>
    <internal-path-cost>0</internal-path-cost>
    <external-path-cost>0</external-path-cost>
    <configured-path-cost>20000000</configured-path-cost>
    <designated-port-id>0</designated-port-id>
    <port-priority>128</port-priority>
    <designated-bridge-id>0000.0000.0000.0000</designated-bridge-id>
    <forward-transitions-count>0</forward-transitions-count>
    <port-hello-time>2</port-hello-time>
    <received-stp-type>none</received-stp-type>
    <transmitted-stp-type>mstp</transmitted-stp-type>
    <edge-port>off</edge-port>
    <auto-edge>no</auto-edge>
    <edge-delay>3</edge-delay>
    <admin-edge>no</admin-edge>
    <boundary-port>yes</boundary-port>
    <configured-root-guard>off</configured-root-guard>
    <oper-root-guard>off</oper-root-guard>
    <oper-bpdu-guard>off</oper-bpdu-guard>
    <oper-bpdu-filter>off</oper-bpdu-filter>
    <link-type>point-to-point</link-type>
    <rx-bpdu-count>0</rx-bpdu-count>
    <tx-bpdu-count>0</tx-bpdu-count>
  </port>
</cist>
<msti>
  <instance-id>1</instance-id>
  <msti-root-id>8001.01e0.5200.05bf</msti-root-id>
  <msti-bridge-id>8001.01e0.5200.05bf</msti-bridge-id>
  <msti-bridge-priority>32769</msti-bridge-priority>
  <port>
    <interface-type>TenGigabitEthernet</interface-type>
    <interface-name>2/0/12</interface-name>
    <spanningtree-enabled>>false</spanningtree-enabled>
    <if-index>403046411</if-index>
    <interface-id>32768</interface-id>
    <if-role>disabled</if-role>
    <if-state>forwarding</if-state>
    <internal-path-cost>0</internal-path-cost>
    <configured-path-cost>20000000</configured-path-cost>
    <designated-port-id>0</designated-port-id>
    <port-priority>128</port-priority>
    <designated-bridge-id>0000.0000.0000.0000</designated-bridge-id>
    <forward-transitions-count>0</forward-transitions-count>
    <received-stp-type>none</received-stp-type>
    <transmitted-stp-type>mstp</transmitted-stp-type>
    <edge-port>off</edge-port>
    <auto-edge>no</auto-edge>
    <edge-delay>3</edge-delay>
    <admin-edge>no</admin-edge>
    <boundary-port>yes</boundary-port>
    <rx-bpdu-count>0</rx-bpdu-count>
    <tx-bpdu-count>0</tx-bpdu-count>
  </port>
</msti>
<has-more>>false</has-more>
</output>

```

History

Release version	History
5.0.0	The API call was introduced.

get-system-uptime

Retrieves the time since this managed entity was last re-initialized.

Resource URIs

URI	Description
<base_URI>/operational-state/get-system-uptime	Retrieves the time since this managed entity was last re-initialized

Parameters

Name	Description
<i>rbridge-id</i>	Displays the RBridge ID
<i>days</i>	Displays the number of days the managed node is up since its last re-initialization
<i>hours</i>	Displays the number of hours the managed node is up since its last re-initialization
<i>minutes</i>	Displays the number of minutes the managed node is up since its last re-initialization
<i>seconds</i>	Displays the number of seconds the managed node is up since its last re-initialization

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-system-uptime
```

Request body

```
<get-system-uptime></get-system-uptime>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-system'>
  <show-system-uptime>
    <rbridge-id>1</rbridge-id>
    <days>0</days>
    <hours>5</hours>
    <minutes>53</minutes>
    <seconds>4</seconds>
  </show-system-uptime>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-vcs-details

Retrieves the VCS Fabric configuration information.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vcs-details	Retrieves the VCS Fabric configuration information

Parameters

Name	Description
<i>node-vcs-mode</i>	Displays the node's VCS mode
<i>local-switch-wwn</i>	Displays the WWN of local switch
<i>node-vcs-type</i>	Displays the VCS types
<i>node-vcs-id</i>	Displays the VCS ID
<i>principal-switch-wwn</i>	Displays the WWN of the principal switch
<i>co-ordinator-wwn</i>	Displays the WWN of the coordinator switch

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-vcs-details

Request body

<get-vcs-details></get-vcs-details>

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>
  <vcs-details>
    <node-vcs-mode>true</node-vcs-mode>
    <local-switch-wwn>10:00:00:27:F8:54:4F:98</local-switch-wwn>
    <node-vcs-type>vcs-management-cluster</node-vcs-type>
    <node-vcs-id>1</node-vcs-id>
    <principal-switch-wwn>10:00:00:27:F8:54:4F:98</principal-switch-wwn>
    <co-ordinator-wwn>10:00:00:27:F8:54:4F:98</co-ordinator-wwn>
  </vcs-details>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-vlan-brief

Retrieves the operational data for a given VLAN and enumeration of all the interfaces belonging to the VLAN.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vlan-brief	Retrieves the operational data for a given VLAN and enumeration of all the interfaces belonging to the VLAN

Parameters

Name	Description
<i>vlan-id</i>	Displays the VLAN ID
<i>vlan-type</i>	Displays the VLAN type
<i>vlan-name</i>	Displays the administrative name of the VLAN
<i>vlan-state</i>	Displays the operational state of the VLAN
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name
<i>tag</i>	Displays the state of the interface - untagged, tagged, or converged
<i>classification-type</i>	Displays the type of classification
<i>classification-value</i>	Displays the value of the VLAN classification
<i>last-vlan-id</i>	Displays the last VLAN record that has been fetched

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-vlan-brief
```

Request body

```
<get-vlan-brief></get-vlan-brief>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <vlan>
    <vlan-id>1</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>default</vlan-name>
    <vlan-state>active</vlan-state>
    <interface>
      <interface-type>port-channel</interface-type>
```

```

        <interface-name>6</interface-name>
        <tag>tagged</tag>
    </interface>
</vlan>
</output>

```

If the entire information cannot be retrieved in a single execution, the last lines of output says `has-more=true`. In such cases the remaining information can be retrieved using "last-rcvd-interface" as shown in the request body below.

Request body

```

<get-vlan-brief xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
  <last-rcvd-vlan-id>1</last-rcvd-vlan-id>
</get-vlan-brief>

```

Response body

```

<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <vlan>
    <vlan-id>10</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>VLAN0010</vlan-name>
    <vlan-state>invalid</vlan-state>
  </vlan>
  <vlan>
    <vlan-id>52</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>VLAN0052</vlan-name>
    <vlan-state>invalid</vlan-state>
  </vlan>
  <vlan>
    <vlan-id>53</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>VLAN0053</vlan-name>
    <vlan-state>active</vlan-state>
    <interface>
      <interface-type>FortyGigabitEthernet</interface-type>
      <interface-name>7/0/49</interface-name>
      <tag>untagged</tag>
    </interface>
    <interface>
      <interface-type>TenGigabitEthernet</interface-type>
      <interface-name>7/0/3</interface-name>
      <tag>untagged</tag>
    </interface>
  </vlan>
  <vlan>
    <vlan-id>1002</vlan-id>
    <vlan-type>fcoe</vlan-type>
    <vlan-name>VLAN1002</vlan-name>
    <vlan-state>suspend</vlan-state>
  </vlan>
  <last-vlan-id>1002</last-vlan-id>
  <has-more>false</has-more>
</output>

```


History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the has-more information details.

get-vmpolicy-macaddr

Shows vnics/vmknics to port group to port-profile association.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vmpolicy-macaddr	Shows vnics/vmknics to port group to port-profile association

Parameters

Name	Description
mac	Displays the MAC address in HH:HH:HH:HH:HH:HH format
datacenter	Displays the name of the datacenter
dvpgrp-nn	Displays the distributed virtual port group
port-prof	Displays the Port-profile

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-vmpolicy-macaddr

Request body

```
<get-vmpolicy-macaddr>
  <vcenter>VC6</vcenter>
</get-vmpolicy-macaddr>
```

Response body

```
<output xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vmpolicy-macaddr>
    <mac>00:21:5e:c6:0e:c8</mac>
    <datacenter>datacenter-4381</datacenter>
    <dvpgrp-nn>Management Network</dvpgrp-nn>
    <port-prof>auto_VC6_datacenter-4381_Management+Network</port-prof>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>00:50:56:aa:02:ee</mac>
    <datacenter>datacenter-4381</datacenter>
    <name>VM40</name>
    <dvpgrp-nn>pg3</dvpgrp-nn>
    <port-prof>auto_VC6_datacenter-4381_pg3</port-prof>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>00:50:56:aa:2d:36</mac>
    <datacenter>datacenter-2</datacenter>
```

```

    <name>VM10</name>
    <dvpg-nn>VM Network</dvpg-nn>
    <port-prof>auto_VC6_datacenter-2_VM+Network</port-prof>
  </vmpolicy-macaddr>
</vmpolicy-macaddr>
  <mac>00:50:56:aa:3b:d7</mac>
  <datacenter>datacenter-4381</datacenter>
  <name>VM_Temp</name>
  <dvpg-nn>vlan-castor-19</dvpg-nn>
</vmpolicy-macaddr>
</vmpolicy-macaddr>
  <mac>00:50:56:b3:2d:ee</mac>
  <datacenter>datacenter-2</datacenter>
  <name>KVM_Hyperv_103_castor_castor-t</name>
</vmpolicy-macaddr>
</vmpolicy-macaddr>
  <mac>00:50:56:b3:43:74</mac>
  <datacenter>datacenter-2</datacenter>
  <name>KVM_Hyperv_105_castort_castor</name>
</vmpolicy-macaddr>
</vmpolicy-macaddr>
  <mac>e4:1f:13:31:cb:88</mac>
  <datacenter>datacenter-2</datacenter>
  <dvpg-nn>Management Network</dvpg-nn>
  <port-prof>auto_VC6_datacenter-2_Management+Network</port-prof>
</vmpolicy-macaddr>
</vmpolicy-macaddr>
  <mac>e4:1f:13:31:d3:f4</mac>
  <datacenter>datacenter-2</datacenter>
  <dvpg-nn>Management Network</dvpg-nn>
  <port-prof>auto_VC6_datacenter-2_Management+Network</port-prof>
</vmpolicy-macaddr>
</output>

```

History

Release version	History
5.0.0	The API call was introduced.

get-vnetwork-dvpgs

Shows discovered distributed virtual port groups.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-dvpgs	Shows discovered distributed virtual port groups

Parameters

Name	Description
<i>name</i>	Displays the port group name
<i>datacenter</i>	Displays the datacenter name
<i>dvs-nn</i>	Displays the distributed virtual switch
<i>vlan</i>	Displays the allowed VLANs

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-vnetwork-dvpgs
```

Request body

```
<get-vnetwork-dvpgs>
  <vcenter>VC6</vcenter>
</get-vnetwork-dvpgs>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-dvpgs>
    <name>dvPortGroup</name>
    <datacenter>datacenter-2</datacenter>
    <dvs-nn>dvSwitch</dvs-nn>
    <vlan>0,</vlan>
  </vnetwork-dvpgs>
  <vnetwork-dvpgs>
    <name>dvSwitch-DVUplinks-4504</name>
    <datacenter>datacenter-2</datacenter>
    <dvs-nn>dvSwitch</dvs-nn>
    <vlan>0-4094,</vlan>
  </vnetwork-dvpgs>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-vnetwork-dvs

Shows discovered Distributed Virtual Switches.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-dvs	Shows discovered Distributed Virtual Switches

Parameters

Name	Description
<i>name</i>	Displays the distributed virtual switch name
<i>datacenter</i>	Displays the host datacenter
<i>host</i>	Displays the host name
<i>pnic</i>	Displays the host NIC
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-vnetwork-dvs`

Request body

```
<get-vnetwork-dvs>
  <vcenter>VC6</vcenter>
</get-vnetwork-dvs>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-dvs>
    <name>dvSwitch</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnic>vmnic4</pnic>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-dvs>
  <vnetwork-dvs>
    <name>dvSwitch</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnic>vmnic5</pnic>
    <interface-type>unknown</interface-type>
```

```
<interface-name></interface-name>
</vnetwork-dvs>
<vnetwork-dvs>
  <name>dvSwitch</name>
  <datacenter>datacenter-2</datacenter>
  <host>ESX5-1-74.englab.brocade.com</host>
  <pnictype>vmnic8</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-dvs>
<vnetwork-dvs>
  <name>dvSwitch</name>
  <datacenter>datacenter-2</datacenter>
  <host>ESX5-1-74.englab.brocade.com</host>
  <pnictype>vmnic9</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-dvs>
<instance-id>0</instance-id>
<has-more>false</has-more>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-vnetwork-hosts

Shows discovered hosts.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-hosts	Shows discovered hosts

Parameters

Name	Description
<i>name</i>	Displays the host name
<i>datacenter</i>	Displays the host datacenter
<i>vmnic</i>	Displays the host NIC
<i>mac</i>	Displays the vmnic MAC address in HH:HH:HH:HH:HH:HH format
<i>vswitch</i>	Displays the regular or distributed virtual switch
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-vnetwork-hosts
```

Request body

```
<get-vnetwork-hosts>
  <vcenter>VC6</vcenter>
</get-vnetwork-hosts>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-hosts>
    <name>ESX5-0-72.englab.brocade.com</name>
    <datacenter>datacenter-2</datacenter>
    <vmnic>vmnic0</vmnic>
    <mac>e4:1f:13:31:d3:f4</mac>
    <vswitch>vSwitch0</vswitch>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-hosts>
  <vnetwork-hosts>
    <name>ESX5-0-72.englab.brocade.com</name>
    <datacenter>datacenter-2</datacenter>
```



```

    <vmnic>vmnic1</vmnic>
    <mac>e4:1f:13:31:d3:f6</mac>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-0-72.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vmnic2</vmnic>
  <mac>00:1b:21:90:67:b4</mac>
  <vswitch>vSwitch1</vswitch>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-0-72.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vmnic4</vmnic>
  <mac>00:1b:21:90:67:b6</mac>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-0-72.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vusb0</vmnic>
  <mac>e6:1f:13:2b:23:f7</mac>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-1-74.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vmnic0</vmnic>
  <mac>00:21:5e:c6:b6:ec</mac>
  <vswitch>vSwitch0</vswitch>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-1-74.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vmnic13</vmnic>
  <mac>00:1b:21:90:70:2d</mac>
  <vswitch>vSwitch1</vswitch>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>esx5-0-70.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vusb0</vmnic>
  <mac>e6:1f:13:2b:1b:8b</mac>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
<instance-id>0</instance-id>
<has-more>>false</has-more>
</output>

```

History

Release version	History
5.0.0	The API call was introduced.

get-vnetwork-portgroups

Shows discovered Port groups.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-portgroups	Shows discovered Port groups

Parameters

Name	Description
<i>name</i>	Displays the host name
<i>datacenter</i>	Displays the host datacenter
<i>vlan</i>	Displays the allowed VLANs
<i>host-nn</i>	Displays the host name

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/get-vnetwork-portgroups
```

Request body

```
<get-vnetwork-portgroups>
  <vcenter>VC6</vcenter>
</get-vnetwork-portgroup>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-pgs>
    <name>Management Network</name>
    <datacenter>datacenter-2</datacenter>
    <vlan>0</vlan>
    <host-nn>ESX5-0-72.englab.brocade.com</host-nn>
  </vnetwork-pgs>
  <vnetwork-pgs>
    <name>PG-1001</name>
    <datacenter>datacenter-2</datacenter>
    <vlan>100</vlan>
    <host-nn>esx5-0-70.englab.brocade.com</host-nn>
  </vnetwork-pgs>
  <vnetwork-pgs>
    <name>VM Network</name>
    <datacenter>datacenter-2</datacenter>
    <vlan>0</vlan>
    <host-nn>ESX5-0-72.englab.brocade.com</host-nn>
```

```

</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>0</vlan>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>0</vlan>
  <host-nn>esx5-0-70.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network</name>
  <datacenter>datacenter-4381</datacenter>
  <vlan>0</vlan>
  <host-nn>ESX5-1-75.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network</name>
  <datacenter>datacenter-4381</datacenter>
  <vlan>0</vlan>
  <host-nn>ESXi5-0-71.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network 2</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>0</vlan>
  <host-nn>ESX5-0-72.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network 2</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>0</vlan>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network 2</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>4095</vlan>
  <host-nn>esx5-0-70.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>pg4</name>
  <datacenter>datacenter-4381</datacenter>
  <vlan>100</vlan>
  <host-nn>ESX5-1-75.englab.brocade.com</host-nn>
</vnetwork-pgs>
<instance-id>0</instance-id>
<has-more>>false</has-more>
</output>

```

History

Release version	History
5.0.0	The API call was introduced.

get-vnetwork-vms

Shows discovered VMs.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-vms	Shows discovered VMs

Parameters

Name	Description
<i>name</i>	Displays the host name
<i>datacenter</i>	Displays the host datacenter
<i>mac</i>	Displays the MAC address
<i>host-nn</i>	Displays the host name

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-vnetwork-vms`

Request body

```
<get-vnetwork-vms>
  <vcenter>VC6</vcenter>
</get-vnetwork-vms>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-vms>
    <name>KVM_Hyperv_101_castor_castor</name>
    <datacenter>datacenter-2</datacenter>
    <mac>00:50:56:b3:5e:25</mac>
    <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
  </vnetwork-vms>
  <vnetwork-vms>
    <name>KVM_Hyperv_101_castor_castor</name>
    <datacenter>datacenter-2</datacenter>
    <mac>00:50:56:b3:6b:19</mac>
    <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
  </vnetwork-vms>
  <vnetwork-vms>
    <name>KVM_Hyperv_102_castor_nexus</name>
    <datacenter>datacenter-2</datacenter>
    <mac>00:50:56:b3:37:c6</mac>
    <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
  </vnetwork-vms>
```

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```
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_102_castor_nexus</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:78:fb</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_103_castor_castor-t</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:69:ca</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_106_castort_nexus</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:76:ce</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_107_castort_castor-t</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:39:f4</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_107_castort_castor-t</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:68:a3</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_108_castort_callisto</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:6e:22</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>Vm_test_clone1</name>
  <datacenter>datacenter-4381</datacenter>
  <mac>00:50:56:aa:43:33</mac>
  <host-nn>ESX5-1-75.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>centos-don-script</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:8d:3c:a6</mac>
  <ip>255.255.255.255</ip>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>centos-don-script</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:8d:44:0d</mac>
  <ip>255.255.255.255</ip>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<instance-id>0</instance-id>
<has-more>>false</has-more>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

get-vnetwork-vswitches

Shows discovered Virtual Switches.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-vswitches	Shows discovered Virtual Switches

Parameters

Name	Description
<i>name</i>	Displays the virtual switch name
<i>datacenter</i>	Displays the host datacenter
<i>host</i>	Displays the host name
<i>pnic</i>	Displays the host NIC
<i>interface-type</i>	Displays the interface type
<i>interface-name</i>	Displays the interface name

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/get-vnetwork-vswitches`

Request body

```
<get-vnetwork-vswitches>
  <vcenter>VC6</vcenter>
</get-vnetwork-vswitches>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-vswitches>
    <name>vSwitch0</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-0-72.englab.brocade.com</host>
    <pnic>vmnic0</pnic>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-vswitches>
  <vnetwork-vswitches>
    <name>vSwitch0</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnic>vmnic0</pnic>
    <interface-type>unknown</interface-type>
```



```

    <interface-name></interface-name>
  </vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch2</name>
  <datacenter>datacenter-2</datacenter>
  <host>esx5-0-70.englab.brocade.com</host>
  <pnictype>vmnic1</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch3</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic4</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch4</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic5</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch4</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic6</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch4</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic7</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch4</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic8</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
<instance-id>0</instance-id>
<has-more>false</has-more>
</output>

```

History

Release version	History
5.0.0	The API call was introduced.

I2traceroute

Traces a TRILL route from a host source MAC address to a destination MAC address.

Resource URIs

URI	Description
<base_URI>/operational-state/l2traceroute	Trace a TRILL route from the provided host-source-mac to host-dest-mac

Parameters

Name	Description
session-id	Displays the session ID given to client. Use in API I2traceroute-result to check the result of this operation
reason	Displays the reason for this return

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/l2traceroute
```

Request body

```
<l2traceroute>
  <src-mac>0000.0000.0200</src-mac>
  <dest-mac>0000.0000.0201</dest-mac>
  <vlan-id>1</vlan-id>
  <rbridge-id>7</rbridge-id>
</l2traceroute>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-trilloam'>
  <session-id>458756</session-id>
  <reason>SUCCESS</reason>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

l2traceroute-result

Returns the result of a TRILL traceroute.

Resource URIs

URI	Description
<base_URI>/operational-state/l2traceroute-result	l2traceroute command result

Parameters

Name	Description
session-id	Displays the session ID previously given by client to identify this session
rbridge-id	Specifies the RBridge ID
interface-type	Specifies the interface type
interface-name	Specifies the interface name

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/l2traceroute-result
```

Request body

```
<l2traceroute-result xmlns="urn:brocade.com:mgmt:brocade-trilloam">
  <session-id>393217</session-id>
</l2traceroute-result>
```

Response body

```
<output xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
  <l2-hop-results xmlns="urn:brocade.com:mgmt:brocade-trilloam">
    <l2-hop>
      <rbridge-id>6</rbridge-id>
      <roundtriptime>0</roundtriptime>
      <ingress>
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>6/0/31</interface-name>
      </ingress>
      <egress>
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>6/0/31</interface-name>
      </egress>
    </l2-hop>
  </l2-hop-results>
  <l2traceroutedone
xmlns="urn:brocade.com:mgmt:brocade-trilloam">true</l2traceroutedone>
```

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```
<reason xmlns="urn:brocade.com:mgmt:brocade-trilloam">SUCCESS</reason>
</rpc-reply
```

History

Release version	History
5.0.0	The API call was introduced.

logical-chassis-fwdl-sanity

Retrieves firmware download sanity check status.

Resource URIs

URI	Description
<base_URI>/operational-state/logical-chassis-fwdl-sanity	Retrieves firmware download sanity check status.

Parameters

Name	Description
<i>rbridge-id</i>	Displays the RBridge ID
<i>fwdl-status</i>	Displays the firmware download status
<i>fwdl-msg</i>	Displays the firmware download message
<i>fwdl-cmd-status</i>	Displays the firmware download command status
<i>fwdl-cmd-msg</i>	Displays the firmware download command message

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/logical-chassis-fwdl-sanity

Request body

```
<logical-chassis-fwdl-sanity>
  <user>user1</user>
  <password>user1</password>
  <host>192.168.10.2</host>
  <directory>/import/builds/sanity_bld_02</directory>
  <file>release.plist</file>
  <rbridge-id>2</rbridge-id>
  <auto-activate/>
  <protocol>scp</protocol>
</logical-chassis-fwdl-sanity>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <cluster-output>
    <rbridge-id>2</rbridge-id>
    <fwdl-status>1</fwdl-status>
    <fwdl-msg>ISSU protocol, non-disruptive.</fwdl-msg>
  </cluster-output>
  <fwdl-cmd-status>0</fwdl-cmd-status>
  <fwdl-cmd-msg>Firmware download sanity check completed
  successfully</fwdl-cmd-msg>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

logical-chassis-fwdl-status

Retrieves firmware activation status.

Resource URIs

URI	Description
<base_URI>/operational-state/logical-chassis-fwdl-status	Retrieves firmware activation status

Parameters

Name	Description
<i>rbridge-id</i>	Displays the RBridge ID in the cluster
<i>fwdl-state</i>	Displays the firmware download state
<i>index</i>	Displays the index
<i>message-id</i>	Displays the firmware download message ID
<i>date-and-time-info</i>	Displays the firmware download date and time
<i>message</i>	Displays the firmware download message

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/logical-chassis-fwdl-status`

Request body

```
<logical-chassis-fwdl-status></logical-chassis-fwdl-status>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <overall-status>0</overall-status>
  <cluster-fwdl-entries>
    <rbridge-id>54</rbridge-id>
    <fwdl-state>completed</fwdl-state>
    <fwdl-entries>
      <index>1</index>
      <message-id>0</message-id>
      <date-and-time-info>2014-07-04/23:52:39</date-and-time-info>
      <message>Firmware install begins.</message>
      <blade-name>SW/0</blade-name>
    </fwdl-entries>
    <fwdl-entries>
      <index>2</index>
      <message-id>0</message-id>
      <date-and-time-info>2014-07-04/23:55:33</date-and-time-info>
      <message>Firmware install ends.</message>
```

```

        <blade-name>SW/0</blade-name>
    </fwdl-entries>
</cluster-fwdl-entries>
<cluster-fwdl-entries>
    <rbridge-id>125</rbridge-id>
    <fwdl-state>completed</fwdl-state>
    <fwdl-entries>
        <index>1</index>
        <message-id>0</message-id>
        <date-and-time-info>2014-07-04/23:56:32</date-and-time-info>
        <message>Firmware install begins.</message>
        <blade-name>M2</blade-name>
    </fwdl-entries>
    <fwdl-entries>
        <index>2</index>
        <message-id>0</message-id>
        <date-and-time-info>2014-07-05/00:00:36</date-and-time-info>
        <message>Firmware install ends.</message>
        <blade-name>M2</blade-name>
    </fwdl-entries>
</cluster-fwdl-entries>
<cluster-fwdl-entries>
    <rbridge-id>55</rbridge-id>
    <fwdl-state>completed</fwdl-state>
    <fwdl-entries>
        <index>1</index>
        <message-id>0</message-id>
        <date-and-time-info>2014-07-04/23:52:08</date-and-time-info>
        <message>Firmware install begins.</message>
        <blade-name>SW/0</blade-name>
    </fwdl-entries>
    <fwdl-entries>
        <index>2</index>
        <message-id>0</message-id>
        <date-and-time-info>2014-07-04/23:55:10</date-and-time-info>
        <message>Firmware install ends.</message>
        <blade-name>SW/0</blade-name>
    </fwdl-entries>
</cluster-fwdl-entries>
</output>

```

History

Release version	History
5.0.0	The API call was introduced.

maps-get-all-policy

Retrieves the existing MAPS policies.

Resource URIs

URI	Description
<base_URI>/operational-state/maps-get-all-policy	Retrieves the existing MAPS policies

Parameters

Name	Description
<i>policyname</i>	Displays the MAPS policy name

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/maps-get-all-policy
```

Request body

```
<maps-get-all-policy></maps-get-all-policy>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-maps-ext'>
  <policy>
    <policyname>dflt_conservative_policy</policyname>
    <policyname>dflt_aggressive_policy</policyname>
    <policyname>dflt_moderate_policy</policyname>
  </policy>
</output>
```

History

Release version	History
6.0.1	The API call was introduced.

maps-get-default-rules

Retrieves the existing MAPS rules.

Resource URIs

URI	Description
<base_URI>/operational-state/maps-get-default-rules	Retrieves the existing MAPS rules

Parameters

Name	Description
<i>rulename</i>	Displays the MAPS rule name
<i>groupname</i>	Displays the MAPS group name
<i>monitor</i>	Displays the MAPS monitor name
<i>op</i>	Displays the MAPS operator
<i>value</i>	Displays the MAPS threshold value
<i>action</i>	Displays the MAPS action value
<i>timebase</i>	Displays the MAPS timebase value
<i>polycyname</i>	Displays the MAPS policy associated with rule

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/maps-get-default-rules

Request body

```
<maps-get-default-rules></maps-get-default-rules>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-maps-ext'>
  <rules>
    <rulename>defALL_ETH_PORTSCRCALN_0</rulename>
    <groupname>ALL_ETH_PORTS</groupname>
    <monitor>CRCALN</monitor>
    <op>></op>
    <value>0</value>
    <action>RASLOG</action>
    <timebase>MIN</timebase>
    <polycyname>dflt_conservative_policy</polycyname>
  </rules>
  <rules>
    <rulename>defALL_ETH_PORTSRX_SYM_ERR_0</rulename>
    <groupname>ALL_ETH_PORTS</groupname>
```

```

    <monitor>RX_SYM_ERR</monitor>
    <op>></op>
    <value>0</value>
    <action>RASLOG</action>
    <timebase>MIN</timebase>
    <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defCHASSISBAD_FAN_MARG</rulename>
  <groupname>CHASSIS</groupname>
  <monitor>BAD_FAN</monitor>
  <op>=</op>
  <value>1</value>
  <action>RASLOG, SW_MARGINAL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_FAULTY</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>=</op>
  <value>FAULTY</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OFF</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>=</op>
  <value>OFF</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OUT</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>=</op>
  <value>OUT</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defALL_ETH_PORTSRX_ABN_FRAME_0</rulename>
  <groupname>ALL_ETH_PORTS</groupname>
  <monitor>RX_ABN_FRAME</monitor>
  <op>></op>
  <value>0</value>
  <action>RASLOG</action>
  <timebase>MIN</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_ETH_PORTSRX_IFG_0</rulename>
  <groupname>ALL_ETH_PORTS</groupname>

```

```

    <monitor>RX_IFG</monitor>
    <op>></op>
    <value>0</value>
    <action>RASLOG</action>
    <timebase>MIN</timebase>
    <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defCHASSISBAD_FAN_CRIT</rulename>
  <groupname>CHASSIS</groupname>
  <monitor>BAD_FAN</monitor>
  <op>=</op>
  <value>2</value>
  <action>RASLOG, SW_CRITICAL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_IN</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>IN</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OUT</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>OUT</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OUT</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>OUT</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_aggressive_policy</policyname>
</rules>
</output>

```

History

Release version	History
6.0.1	The API call was introduced.
7.0.0	The API call was modified to rename the command maps-get-rules to maps-get-default-rules .

no-vcs-rbridge-context

Disables VCS Fabric mode.

Resource URIs

URI	Description
<base_URI>/operational-state/no-vcs-rbridge-context	Disables VCS Fabric mode

Parameters

None

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/no-vcs-rbridge-context
```

Request body

```
<no-vcs-rbridge-context></no-vcs-rbridge-context>
```

Response body

None

History

Release version	History
5.0.0	The API call was introduced.

redundancy

Resource URIs

URI	Description
<base_URI>/operational-state/redundancy	

Parameters

Name	Description
rd_status	Specifies the status Status: 0 - Success, 1 - Failed
rd_mesg	Displays the message

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/redundancy

Request body

```
<redundancy></redundancy>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ha'>
  <rd_status>0</rd_status>
  <rd_mesg>=== MM Redundancy Statistics ===
    Current Active Session:
    Active Slot = M2 (Local)
    Standby Slot = M1 (Remote)
    Start Time: 23:00:50 PST Wed Dec 09 2015

    System Uptime: 22:42:39 PST Wed Dec 09 2015

  </rd_mesg>
</output>
```

History

Release version	History
7.0.0	The API call was introduced.

reload

Reloads the switch

Resource URIs

URI	Description
<base_URI>/operational-state/reload	Reloads the switch

Parameters

None

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/reload

Request body

<reload></reload>

Response body

None

History

Release version	History
5.0.1	The API call was introduced.

set-http-application-url

Updates the HTTP application URL.

Resource URIs

URI	Description
<base_URI>/operational-state/set-http-application-url	Update HTTP application URL

Parameters

Name	Description
status-code	Displays the status code as URL updated successfully - 0, Error not able to update configuration - 1 or Error not able to remove configuration - 2
status-string	Displays the error in string format

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/set-http-application-url
```

Request body

```
<set-http-application-url>
  <config-http-app-url>
    <url>www.google.com</url>
    <op-type>0</op-type>
  </config-http-app-url>
</set-http-application-url>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-http-redirect'>
  <status-code>0</status-code>
  <status-string>Success</status-string>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-bare-metal-state

Indicates the bare-metal state on the system.

Resource URIs

URI	Description
<base_URI>/operational-state/show-bare-metal-state	Indicates the bare-metal state on the system

Parameters

Name	Description
<i>bare-metal-state</i>	Indicates the bare-metal state on the system

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-bare-metal-state
```

Request body

```
<show-bare-metal-state></show-bare-metal-state>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-preprovision'>
  <bare-metal-state>disable</bare-metal-state>
</output>
```

History

Release version	History
6.0.1	The API call was introduced.

show-clock

Retrieves the current time for the cluster or specified switch.

Resource URIs

URI	Description
<base_URI>/operational-state/show-clock	Retrieves current time for the cluster or specified switch

Parameters

Name	Description
<i>rbridge-id-out</i>	Displays the RBridge ID
<i>current-time</i>	Displays the switch date and time
<i>timezone</i>	Displays the region/city or region/state/city

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-clock
```

Request body

```
<show-clock></show-clock>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-clock'>
  <clock-time>
    <rbridge-id-out>1</rbridge-id-out>
    <current-time>2014-05-19T16:25:06+00:00</current-time>
    <timezone>Etc/GMT+0</timezone>
  </clock-time>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-fabric-trunk-info

Retrieves all ISL trunk information in a fabric.

Resource URIs

URI	Description
<base_URI>/operational-state/show-fabric-trunk-info	Retrieves all ISL trunk information in a fabric

Parameters

Name	Description
<i>trunk-list-group</i>	Provides the trunk group number the interface belongs to. Trunk members of a trunk group have the same group number
<i>trunk-list-src-port</i>	Displays the source port index of the trunk member
<i>trunk-list-interface-type</i>	Displays the interface type
<i>trunk-list-src-interface</i>	Displays the source port interface info
<i>trunk-list-nbr-rbridge-id</i>	Displays the RBbridge id of the neighboring switch that connects to this trunk member port
<i>trunk-list-nbr-port</i>	Displays neighbor port index of the trunk member
<i>trunk-list-nbr-interface-type</i>	Displays the interface type
<i>trunk-list-nbr-interface</i>	Displays the neighbour port interface info
<i>trunk-list-nbr-wwn</i>	Displays WWN of the neighboring switch that connects to this trunk member port
<i>trunk-list-is-primary</i>	Indicates whether the port is Trunk master or not

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-fabric-trunk-info
```

Request body

```
<show-fabric-trunk-info></show-fabric-trunk-info>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fabric-service'>
  <show-trunk-list xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <trunk-list-groups>
      <trunk-list-group>1</trunk-list-group>
      <trunk-list-member>
        <trunk-list-src-port>174</trunk-list-src-port>
        <trunk-list-interface-type>Te</trunk-list-interface-type>
        <trunk-list-src-interface>6/0/31</trunk-list-src-interface>
        <trunk-list-nbr-rbridge-id>7</trunk-list-nbr-rbridge-id>
      </trunk-list-member>
    </trunk-list-groups>
  </show-trunk-list>
</output>
```

```
<trunk-list-nbr-port>94</trunk-list-nbr-port>
<trunk-list-nbr-interface-type>Te</trunk-list-nbr-interface-type>
<trunk-list-nbr-interface>7/0/31</trunk-list-nbr-interface>
<trunk-list-nbr-wwn>10:00:00:05:33:E5:E7:FF</trunk-list-nbr-wwn>
<trunk-list-is-primary>True</trunk-list-is-primary>
</trunk-list-member>
<trunk-list-member>
  <trunk-list-src-port>175</trunk-list-src-port>
  <trunk-list-interface-type>Te</trunk-list-interface-type>
  <trunk-list-src-interface>6/0/32</trunk-list-src-interface>
  <trunk-list-nbr-rbridge-id>7</trunk-list-nbr-rbridge-id>
  <trunk-list-nbr-port>95</trunk-list-nbr-port>
  <trunk-list-nbr-interface-type>Te</trunk-list-nbr-interface-type>
  <trunk-list-nbr-interface>7/0/32</trunk-list-nbr-interface>
  <trunk-list-nbr-wwn>10:00:00:05:33:E5:E7:FF</trunk-list-nbr-wwn>
  <trunk-list-is-primary>False</trunk-list-is-primary>
</trunk-list-member>
</trunk-list-groups>
</show-trunk-list>
</output>
```

History

Release version	History
7.0.0	The API call was introduced.

show-fibrechannel-interface-info

Retrieves the detailed information of FibreChannel ports.

Resource URIs

URI	Description
<base_URI>/operational-state/show-fibrechannel-interface-info	Retrieves the detailed information of FibreChannel ports

Parameters

Name	Description
portsgroup-rbridgeid	Displays the RBridge ID of the switch

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-fibrechannel-interface-info
```

Request body

```
<show-fibrechannel-interface-info></show-fibrechannel-interface-info>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fabric-service'>
  <show-fibrechannel-interface>
    <portsgroup-rbridgeid>1</portsgroup-rbridgeid>
  </show-fibrechannel-interface>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-firmware-versions

Retrieves the firmware version information.

Resource URIs

URI	Description
<base_URI>/operational-state/show-firmware-version	Retrieves the firmware version information

Parameters

Name	Description
<i>switchid</i>	Displays the switch ID specifies the particular switch to fetch firmware version information
<i>os-name</i>	Displays the name of the Firmware version. Example: NOS, FOS, etc.
<i>os-version</i>	Displays the version of the Firmware
<i>copy-right-info</i>	Displays the copyright information of the Firmware
<i>build-time</i>	Displays the time information on the build of Firmware
<i>firmware-full-version</i>	Displays the full version string of Firmware
<i>control-processor-vendor</i>	Displays the information on the control processor
<i>control-processor-chipset</i>	Displays the information on the control processor
<i>control-processor-memory</i>	Displays the memory of the control processor
<i>slot-no</i>	Displays the slot number
<i>node-instance-no</i>	Displays the instance number
<i>Node-type</i>	Displays the node type
<i>ls-active-cp</i>	Indicates whether the control processor is active or not
<i>application-name</i>	Displays the name of the application
<i>primary-version</i>	Indicates the primary version
<i>secondary-version</i>	Indicates the secondary version

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/show-firmware-version`

Request body

`<show-firmware-version></show-firmware-version>`

Response body

```

<output xmlns='urn:brocade.com:mgmt:brocade-firmware-ext'>
  <show-firmware-version>
    <switchid>1</switchid>
    <os-name>Network Operating System Software</os-name>
    <os-version>5.0.0</os-version>
    <copy-right-info>Copyright (c) 1995-2014 Brocade Communications Systems,
Inc.</copy-right-info>
    <build-time>Mon May 19 08:05:08 2014</build-time>
    <firmware-full-version>5.0.0pkadu_nos5.0.0_pit_a_03_0518_041429</firmware-fu
ll-version>
    <control-processor-vendor>Freescale Semiconductor</control-processor-vendor>
    <control-processor-chipset>P4080E</control-processor-chipset>
    <control-processor-memory>7168 MB</control-processor-memory>
    <node-info>
      <slot-no>1</slot-no>
      <node-instance-no>0</node-instance-no>
      <node-type>type-mm</node-type>
      <is-active-cp>true</is-active-cp>
      <firmware-version-info>
        <application-name>NOS</application-name>
        <primary-version>5.0.0pkadu_nos5.0.0_pit_a_03_0518_041429</primary-versi
on>
        <secondary-version>5.0.0pkadu_nos5.0.0_pit_a_03_0518_041429</secondary-v
ersion>
      </firmware-version-info>
    </node-info>
  </show-firmware-version>
</output>

```

History

Release version	History
5.0.0	The API call was introduced.

show-linkinfo

Retrieves details of all the links connected in the fabric.

Resource URIs

URI	Description
<base_URI>/operational-state/show-linkinfo	Retrieves details of all the links connected in the fabric

Parameters

Name	Description
<i>linkinfo-rbridgeid</i>	Displays the RBridge ID of the node in the fabric
<i>linkinfo-domain-reachable</i>	Indicates whether the RBridge is reachable or not
<i>linkinfo-version</i>	Displays the FSPF version
<i>linkinfo-wwn</i>	Displays the WWN of the switch

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-linkinfo
```

Request body

```
<show-linkinfo></show-linkinfo>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fabric-service'>
  <show-link-info>
    <linkinfo-rbridgeid>1</linkinfo-rbridgeid>
    <linkinfo-domain-reachable>Yes</linkinfo-domain-reachable>
    <linkinfo-version>1</linkinfo-version>
    <linkinfo-wwn>10:00:00:27:F8:54:4F:98</linkinfo-wwn>
  </show-link-info>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-ntp

Retrieves NTP server information.

Resource URIs

URI	Description
<base_URI>/operational-state/show-ntp	Retrieves NTP server information

Parameters

Name	Description
rbridge-id-out	Displays the RBridge ID
LOCL	Indicates whether the LOCL is true or false

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-ntp
```

Request body

```
<show-ntp></show-ntp>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ntp'>
  <node-active-server>
    <rbridge-id-out>3</rbridge-id-out>
    <LOCL>true</LOCL>
  </node-active-server>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-portindex-interface-info

Retrieves the details of physical interfaces and FibreChannel over Ethernet (FCoE) ports.

Resource URIs

URI	Description
<base_URI>/operational-state/show-portindex-interface-info	Retrieves the details of physical interfaces and Fibre Channel over Ethernet (FCoE) ports

Parameters

Name	Description
<i>portsgroup-rbridgeid</i>	Displays the RBridge ID of the switch in the cluster
<i>port-index</i>	Displays the port index of the RBridge
<i>port-interface</i>	Displays the port index interface of the RBridge
<i>port-type</i>	Displays the port type of the RBridge

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/show-portindex-interface-info`

Request body

```
<show-portindex-interface-info></show-portindex-interface-info>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fabric-service'>
  <show-portindex-interface>
    <portsgroup-rbridgeid>1</portsgroup-rbridgeid>
    <show-portindex>
      <port-index>0</port-index>
      <port-interface>1/1/1</port-interface>
      <port-type>Te</port-type>
    </show-portindex>
  </show-portindex-interface>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-raslog

Retrieves the entries of RASLOG.

Resource URIs

URI	Description
<base_URI>/operational-state/show-raslog	Retrieves the entries of RASLOG

Parameters

Name	Description
<i>rbridge-id</i>	Displays the RBridge ID
<i>number-of-entries</i>	Displays the number of recent events to be fetched from the RASLOG entries
<i>index</i>	Displays the sequence number for the message
<i>message-id</i>	Displays the message identifier
<i>date-and-time-info</i>	Displays the date and time of the message. The format is: YYYY-MM-DD/HH:MM:SS.SSSS (micro seconds)
<i>severity</i>	Displays the severity of the message. Valid values include: INFO, WARNING, ERROR, and CRITICAL
<i>log-type</i>	Specifies if the message is a SYSTEM or DCE log
<i>repeat-count</i>	Displays the number of times the particular event has occurred
<i>message</i>	Displays the textual description of the event
<i>message-flag</i>	Displays the type of the message
<i>switch-or-chassis-name</i>	Displays the switch name for the generator of the message, or chassis

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/show-raslog`

Request body

```
<show-raslog></show-raslog>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras-ext'>
  <show-all-raslog>
    <rbridge-id>1</rbridge-id>
    <number-of-entries>1151</number-of-entries>
    <raslog-entries>
      <index>1</index>
      <message-id>HASM-1004</message-id>
```

```
<date-and-time-info>2014/05/08-16:08:21:48</date-and-time-info>
<severity>informational</severity>
<log-type>system</log-type>
<repeat-count>1</repeat-count>
<message>Processor reloaded - Reset.</message>
<message-flag>unknown</message-flag>
<switch-or-chassis-name>VDX8770-4</switch-or-chassis-name>
</raslog-entries>
</show-all-raslog>
</output>
```

The API can be used to retrieve some number of last entries by providing the following tags as in the request body below.

Request body

```
<show-raslog xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
  <number-of-latest-events>N</number-of-latest-events>
</show-raslog>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras-ext'>
  <show-all-raslog>
    <rbridge-id>14</rbridge-id>
    <number-of-entries>1</number-of-entries>
    <raslog-entries>
      <index>10437</index>
      <message-id>SEC-1206</message-id>
      <date-and-time-info>2015/01/12-10:15:22:49</date-and-time-info>
      <severity>informational</severity>
      <log-type>system</log-type>
      <repeat-count>1</repeat-count>
      <message>Login information: User [admin] Last Successful Login Time : Mon
Jan 12 10:15:12 2015.</message>
      <message-flag>unknown</message-flag>
      <switch-or-chassis-name>VDX8770-4</switch-or-chassis-name>
    </raslog-entries>
  </show-all-raslog>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.
6.0.0	Added an example.

show-support-save-status

Retrieves the information on the status of a recent support save request.

Resource URIs

URI	Description
<base_URI>/operational-state/show-support-save-status	Retrieves the information on the status of a recent support save request

Parameters

Name	Description
<i>rbridge-id</i>	Displays the RBridge ID
<i>status</i>	Displays the status of recent support save
<i>message</i>	Displays the textual description of status of recent support save
<i>percentage-of-completion</i>	Displays the value of percentage of completion

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-support-save-status
```

Request body

```
<show-support-save-status></show-support-save-status>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras-ext'>
  <show-support-save-status>
    <rbridge-id>54</rbridge-id>
    <status>unknown</status>
    <message>supportsave is not running.</message>
    <percentage-of-completion>0</percentage-of-completion>
  </show-support-save-status>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-system-info

Retrieves the system information.

Resource URIs

URI	Description
<base_URI>/operational-state/show-system-info	Retrieves the system information

Parameters

Name	Description
rbridge-id-out	Displays the RBridge ID
stack-mac	Displays the MAC address of the switch

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-system-info
```

Request body

```
<show-system-info></show-system-info>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras-ext'>
  <show-system-info>
    <rbridge-id>54</rbridge-id>
    <stack-mac>00:05:33:65:2b:4d</stack-mac>
  </show-system-info>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-system-monitor

Retrieves the overall status for a selected switch.

Resource URIs

URI	Description
<base_URI>/operational-state/show-system-monitor	Retrieves the overall status for a selected switch

Parameters

Name	Description
<i>rbridge-id-out</i>	Displays the RBridge ID
<i>switch-name</i>	Displays the name of the switch
<i>switch-ip</i>	Displays the IP address of the switch
<i>switch-state</i>	Displays the switch status based on components
<i>switch-state-reason</i>	Displays the component reason for switch status
<i>report-time</i>	Displays the switch report time stamp
<i>component-name</i>	Displays the component name
<i>component-state</i>	Displays the component status based on thresholds
<i>port-area</i>	Displays the port identifier
<i>port-name</i>	Displays the port name
<i>port-state</i>	Displays the port state

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-system-monitor
```

Request body

```
<show-system-monitor></show-system-monitor>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-system-monitor-ext'>
  <switch-status>
    <rbridge-id-out>195</rbridge-id-out>
    <switch-name>sw0</switch-name>
    <switch-ip>10.24.81.195</switch-ip>
    <switch-state>state-marginal</switch-state>
    <switch-state-reason>Switch Status is MARGINAL. Contributors:* MM
non-redundant: (M2). (MARGINAL).</switch-state-reason>
    <report-time>2014-06-11T09:40:21+00:00</report-time>
```

4 Operational APIs

```
<component-status>
  <component-name>Power supplies monitor</component-name>
  <component-state>state-healthy</component-state>
</component-status>
</switch-status>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

show-vcs

Retrieves the VCS information.

Resource URIs

URI	Description
<base_URI>/operational-state/show-vcs	Retrieves the VCS information

Parameters

Name	Description
<i>vcs-cluster-type-info</i>	Displays the VCS type
<i>vcs-guid</i>	Displays the VCS cluster GUID
<i>virtual-ip-address</i>	Displays the cluster virtual IP address
<i>principal-switch-wwn</i>	Displays the VCS Cluster principal switch WWN
<i>co-ordinator-wwn</i>	Displays the VCS cluster coordinator node WWN
<i>total-nodes-in-cluster</i>	Displays the total number of nodes in cluster
<i>nodes-disconnected-from-cluster</i>	Displays the number of nodes disconnected from cluster
<i>cluster-generic-status</i>	Displays the cluster generic status
<i>cluster-specific-status</i>	Displays the cluster specific status
<i>node-num</i>	Displays the node number
<i>node-serial-num</i>	Displays the serial number
<i>node-condition</i>	Displays the node condition
<i>node-status</i>	Displays the node status
<i>node-vcs-mode</i>	Displays the node's VCS mode
<i>node-vcs-id</i>	Displays the node VCS ID
<i>node-rbridge-id</i>	Displays the node RBridge ID
<i>node-is-principal</i>	Indicates if the node is management cluster principal
<i>node-co-ordinator</i>	Indicates if the node is management cluster coordinator
<i>node-switch-mac</i>	Displays the node switch MAC address
<i>node-switch-wwn</i>	Displays the node switch WWN
<i>switch-fcf-mac</i>	Displays the node FCF MAC address
<i>node-internal-ip-address</i>	Displays the node internal IP address
<i>node-public-ip-address</i>	Displays the node public IP address
<i>node-public-ipv6-address</i>	Displays the node public IPv6 address
<i>node-swbd-number</i>	Displays the node SWBD number
<i>firmware-version</i>	Displays the node firmware version

Name	Description
<i>node-switchname</i>	Displays the node switch name
<i>node-fabric-state</i>	Displays the Fabric node state

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/show-vcs

Request body

```
<show-vcs></show-vcs>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>
  <vcs-cluster-type-info>vcs-management-cluster</vcs-cluster-type-info>
  <vcs-guid>00000000000000000000000000000000</vcs-guid>
  <virtual-ip-address>NULL</virtual-ip-address>
  <principal-switch-wwn>10:00:00:27:F8:54:4F:98</principal-switch-wwn>
  <co-ordinator-wwn>10:00:00:27:F8:54:4F:98</co-ordinator-wwn>
  <total-nodes-in-cluster>1</total-nodes-in-cluster>
  <nodes-disconnected-from-cluster>0</nodes-disconnected-from-cluster>
  <cluster-generic-status>Good</cluster-generic-status>
  <cluster-specific-status>All Nodes Present in the
Cluster</cluster-specific-status>
  <vcs-nodes>
    <vcs-node-info>
      <node-num>1</node-num>
      <node-serial-num>CDU2507J00D</node-serial-num>
      <node-condition>Good</node-condition>
      <node-status>Co-ordinator</node-status>
      <node-vcs-mode>Enabled</node-vcs-mode>
      <node-vcs-id>1</node-vcs-id>
      <node-rbridge-id>1</node-rbridge-id>
      <node-is-principal>true</node-is-principal>
      <co-ordinator>true</co-ordinator>
      <node-switch-mac>00:27:f8:54:50:19</node-switch-mac>
      <node-switch-wwn>10:00:00:27:F8:54:4F:98</node-switch-wwn>
      <switch-fcf-mac>00:27:f8:54:4f:98</switch-fcf-mac>
      <node-internal-ip-address>127.1.0.1</node-internal-ip-address>
      <node-public-ip-addresses>
        <node-public-ip-address>10.24.81.195</node-public-ip-address>
      </node-public-ip-addresses>
      <node-public-ipv6-addresses>
      </node-public-ipv6-addresses>
      <node-swbd-number>1000</node-swbd-number>
      <firmware-version>v5.0.0nos5.0.0_pit_a_140518_1800</firmware-version>
      <node-switchname>sw0</node-switchname>
      <node-state>Online</node-state>
      <node-fabric-state>Online</node-fabric-state>
    </vcs-node-info>
  </vcs-nodes>
```

</output>

History

Release version	History
5.0.0	The API call was introduced.

show-zoning-enabled-configuration

Retrieves zoning-enabled configuration information.

Resource URIs

URI	Description
<base_URI>/operational-state/show-zoning-enabled-configuration	Retrieves zoning-enabled configuration information

Parameters

Name	Description
<i>cfg-name</i>	Displays the name of the zone configuration
<i>zone-name</i>	Displays the name of a zone to be added to the configuration
<i>entry-name</i>	Displays the WWN of the device

Usage guidelines

Only POST operation is supported.

Examples

URI

```
http://host:80/rest/operational-state/show-zoning-enabled-configuration
```

Request body

```
<show-zoning-enabled-configuration></show-zoning-enabled-configuration>
```

Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-zone'>
  <enabled-configuration>
    <cfg-name></cfg-name>
    <has-more>>false</has-more>
  </enabled-configuration>
</output>
```

History

Release version	History
5.0.0	The API call was introduced.

vcs-rbridge-config

Retrieves the VCS ID and Rbridge ID in the DUT.

Resource URIs

URI	Description
<base_URI>/operational-state/vcs-rbridge-config	Retrieves the VCS ID and Rbridge ID in the DUT

Parameters

Name	Description
vcs-id	Displays the VCS ID
rbridge-id	Displays the RBridge ID

Usage guidelines

Only POST operation is supported.

Examples

URI

`http://host:80/rest/operational-state/vcs-rbridge-config`

Request body

```
<vcs-rbridge-config>
  <vcs-id>50</vcs-id>
  <rbridge-id>4</rbridge-id>
</vcs-rbridge-config>
```

Response body

None

History

Release version	History
6.0.1	The API call was introduced.

vcs-rbridge-context

Sets VCS Fabric mode for a given routing bridge.

Resource URIs

URI	Description
<base_URI>/operational-state/vcs-rbridge-context	Sets VCS Fabric mode for a given routing bridge.

Parameters

Name	Description
rbridge-id	Displays the RBridge ID

Usage guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/vcs-rbridge-context

Request body

<vcs-rbridge-context><rbridge-id>2</rbridge-id></vcs-rbridge-context>

Response body

None

History

Release version	History
5.0.0	The API call was introduced.