

# Brocade Network OS REST API Guide, 7.0.1

Supporting Network OS 7.0.1

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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
<b>bold text</b>	Identifies command names Identifies keywords and operands Identifies the names of user-manipulated GUI elements
<i>italic text</i>	Identifies text to enter at the GUI Identifies emphasis Identifies variables
Courier font	Identifies document titles 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
<b>bold text</b>	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, <b>--show</b> WWN.
[ ]	Syntax components displayed within square brackets are optional.
{ x   y   z }	Default responses to system prompts are enclosed in square brackets. A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x   y	In Fibre Channel products, square brackets may be used instead for this purpose. A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, for example, passwords, are enclosed in angle brackets.

Convention	Description
...	Repeat the previous element, for example, <i>member{member...}</i> .
\	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](http://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](http://MyBrocade). You can register at no cost to obtain a user ID and password.

Release notes are available on [MyBrocade](http://MyBrocade) under Product Downloads.

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

## 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](http://www.brocade.com).
- By sending your feedback to [documentation@brocade.com](mailto: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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## 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 7.0.1.

### New API

#### Configuration APIs

- ip mtu
- ipv6 mtu
- mtu
- spanning-tree ieee-bpdu limit-vlan-flood

#### Operational APIs

- get-tunnel-info

- `get-tunnel-statistics`

## Modified APIs

### Configuration APIs

- `rbridge-id/{rbridge-number}/hardware-profile`
- `rbridge-id/{rbridge-number}/router/bgp/`
- `rbridge-id/{rbridge-number}/router/ospf/`
- `rbridge-id/{rbridge-number}/snmp-server/`
- `username`

### Operational APIs

None

# Overview of the Network OS REST API

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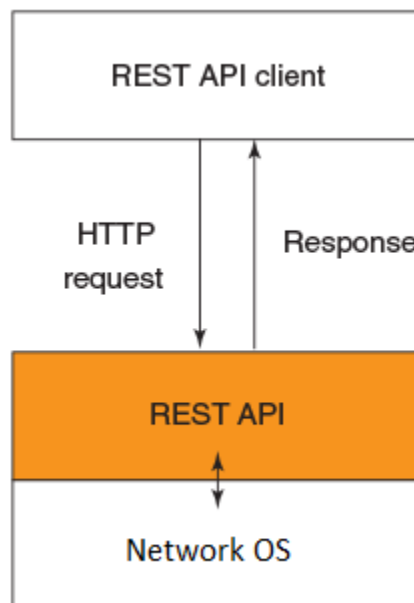
## Network OS REST API

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



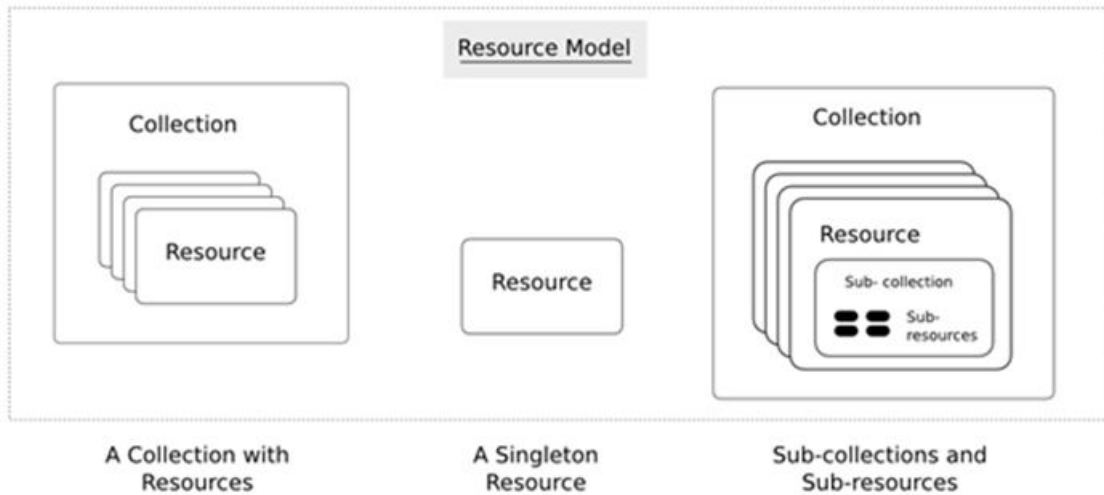
## Resources

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 such as /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.

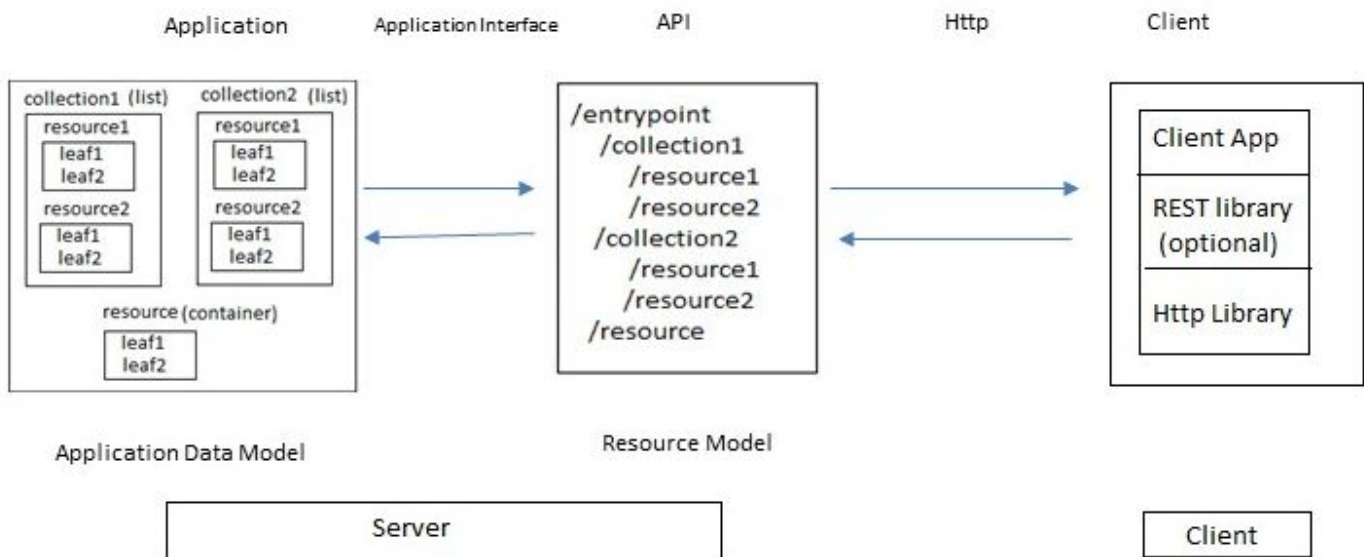
## Relationship of YANG and resource data models

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

FIGURE 3 YANG and Resource data model relationship



### NOTE

API payload uses the *alt-name* and *cli-drop-node-name*. 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/interf ace/vlan/100" identifies the VLAN resource containing the VLAN ID 100.

## URI encoding

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





# Using the Brocade Network OS REST API

---

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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 username 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.

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/7.19.7
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
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.

**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 supported standard request headers are:

- Cache-Control
- Date
- Authorization

- 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.

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 are the supported standard response headers.

- 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
- 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 3** 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



# Use Cases

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## Sample use cases for Network OS REST API

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

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 Brocade Network OS Administrator's guide for the complete configuration tasks.

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](#) on page 259 section.
3. Perform the POST operation by calling the URI - `<BASE_URI>/config/running/ldap-server`.

Sample request payload

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

### Sample response header

```
< 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](#) on page 259 section.
3. Perform the PUT operation by calling the 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

```
< 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 URI - <BASE\_URI>/config/running/ldap-server

There is no request payload for a GET operation.

### Sample response header

```
< 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](#) on page 259 section.
3. Perform the PATCH operation by calling the URI - <BASE\_URI>/config/running/ldap-server/host/test\_API

### Sample request payload

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

### Sample response header

```
< 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 URI - <BASE\_URI>/config/running/ldap-server/host/test\_API (test\_API is the name of the LDAP server that you want to delete)

### Sample response header

```
< 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 request payload and response body for 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 URI - <BASE\_URI>/config/running/mac/access-list

### Sample request payload

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

### Sample response header

```
< 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 URI - <BASE\_URI>/config/running/mac/access-list/standard/acl01/seq

### Sample request payload

```
<seq>
  <seq-id>100</seq-id>
  <action>permit</action>
  <source>0011.2222.3333</source>
  <count>true</count>
</seq>
```

### Sample response header

```
< 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/100
< 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 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

```
< 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 existing rule using the DELETE operation by calling the URI - <BASE\_URI>/config/running/mac/access-list/standard/acl01/seq/100.
3. Perform the POST operation by calling the URI- <BASE\_URI>/config/running/mac/access-list/standard/acl01/seq.

Refer to step 3 of the [Creating a standard MAC ACL](#) on page 36.

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

# Configuration APIs

---

## 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

### *authentication*

Configures preferred order for authentication.

### *accounting*

Configures login accounting.

## Usage Guidelines

GET, OPTIONS, and HEAD operations are supported.

## Examples

The following example uses the GET option 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	This 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

#### *server-type*

Enables or disables login accounting. Possible values are:

#### **None**

Disables login accounting.

#### **tacacs+**

Configures to use TACACS+ servers.

### Usage Guidelines

GET, OPTIONS, and HEAD operations are supported.

### Examples

The following example uses the GET option 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>
```

## History

Release version	History
5.0.0	This 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

#### *first*

Specifies the type of server that will be used for authentication, authorization, and accounting (AAA) on the switch. The local server is the default. Specify one of the following options:

#### *default*

Specifies the default mode (local server). Authenticates the user against the local database only. If the password does not match or the user is not defined, the login fails.

#### **ldap**

Specifies the Lightweight Directory Access Protocol (LDAP) servers.

#### **local**

Specifies the local switch database.

#### **radius**

Specifies the RADIUS servers.

#### **tacacs+**

Specifies the TACACS+ servers.

#### *second*

Specifies to use the local switch database if the first authentication methods are not active or if authentication fails.

#### **local**

Specifies to use the local switch database if prior authentication methods are inactive.

#### **local-auth-failback**

Specifies to use 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 example uses the GET option 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	This API call was introduced.

## acl-policy

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

*alias*

Configures global alias.

*user*

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 example uses the GET option 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	This 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*

Specifies the alias name string. The value can range from 1 through 64 characters.

*expansion*

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 example uses the GET option 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

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	This 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*

Specifies the user name string. The value can range from 1 through 64 characters.

#### *expansion*

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 example uses the GET option 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">
    <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 example uses the GET option to retrieve the configuration details.

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	This API call was introduced.

## apply-qos-mpls

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

#### *acl-name*

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.

#### *ip-type*

Sets the IP address type.

#### *host-ip*

Specifies the sender IP address.

#### *mac*

Sets the MAC address type.

#### *host-mac*

Specifies the sender MAC address, in hexadecimal format.

#### *log*

Enables logging for this permit rule.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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">
      <ip y:self="/rest/config/running/arp/access-list/acl/permit/ip/host%2C21.22.25.65%2Chost%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
5.0.0	This API call was introduced.

## banner

Configures, modifies, or retrieves banner messages.

### Resource URIs

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

### Parameters

*login*

Specifies the message string to be displayed on the switch console.

*motd*

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.

*incoming*

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 example uses the GET option to retrieve the configuration details.

#### 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

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This API call was introduced.



## bridge-domain

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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*

Specifies the CEE map name.

*precedence*

Specifies the precedence value. The value can range from 1 through 100.

*priority-group-table*

Configures Priority group table.

*priority-table*

Configures priority table.

*remap*

Configures Class of Service (CoS) to be remapped.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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"/>
  <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	This 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

#### *priority-group-table*

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.

#### *weight*

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.

#### *pfc*

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 example uses the GET option 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>
  <pfc>on</pfc>
</priority-group-table>
<priority-group-table y:self="/rest/config/running/cee-map/default/priority-group-table/15.0">
  <PGID>15.0</PGID>
  <pfc>off</pfc>
</priority-group-table>
<priority-group-table y:self="/rest/config/running/cee-map/default/priority-group-table/2">
  <PGID>2</PGID>
  <weight>60</weight>
  <pfc>off</pfc>
</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>
  <pfc>on</pfc>
</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	This 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

*priority-table*

Maps CoS 0 to 7 to priority group table.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

#### *fabric-priority*

Specifies the remapped CoS priority value for Brocade VCS Fabric mode. The value can range from 0 through 6.

#### *lossless-priority*

Specifies the remapped priority value. The value can range from 0 through 6. The default value is 0.

#### *priority*

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 example uses the GET option 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	This 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*

Specifies the classification map name. The map name is restricted to 64 characters.

*access-group-name*

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 example uses the GET option 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>
<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	This API call was introduced.

## control-plane

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

*rbridge-id*

Specifies an RBridge ID on which POST is run.

*enable*

Enables the power-on self-test on the specified switch.

### Usage Guidelines

GET, OPTIONS, and HEAD operations are supported.

### Examples

The following example uses the GET option 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>
```

## History

Release version	History
5.0.0	This API call was introduced.

## dle

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

*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 example uses the GET option 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>
```

### 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	This API call was introduced.



## dot1ag

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

#### *port-id*

Specifies the port ID in rbridge-id/slot/port.

#### *operation*

Manages DPOD license assignments. The possible configurations are:

#### **release**

Removes a port from the port set to which it is currently assigned. Removes a port from the port set to which it is currently assigned.

#### **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 example uses the GET option 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.

### 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	This 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

*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 example uses the GET option 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>
        <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	This 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

*fcoe-fabric-map-name*

Specifies the FCoE Fabric-map name.

*priority*

Sets the priority for the FCoE Fabric-map. The value can range from 0 through 6.

*vlan*

Specifies the FCoE VLAN. The value can range from 2 through 4090.

*virtual-fabric*

Specifies the Virtual-Fabric ID. The value can range from 1 though 4096.

*fcf-group*

Configures the fcf-group for an FCoE Fabric-map.

*interval*

Specifies the interval value in milliseconds. The value can range from 250 through 90000 milliseconds.

*keep-alive*

Enables or disables the interval for KEEPALIVE messages.

*timeout*

Enables or disables the timeout for KEEPALIVE messages.

*fif-rbid*

Specifies the RBridge ID of the AG functioning as the FCF.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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>
    <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	This 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 add under <i>fcf-group</i> .



## gre-vxlan

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

*connector*

Configures a connector.

*connector-group*

Configures a connector group.

*custom-profile*

Configures customized hardware profiles.

*flexport*

Provides an option to change Ethernet port to FibreChannel port.

*port-group*

Configures a port group.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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">
  <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	This 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*

Specifies the interface name in [rbridge-id]/slot/port format.

*breakout*

Enables SFP port breakout.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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>
```

### Response Body

None

## History

Release version	History
5.0.0	This 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

*id*

Specifies a valid Fibre Channel port interface.

*speed*

Specifies the speed. Possible values are:

#### **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.

#### **HighMixed**

Sets the speed to 16G Fibre Channel and Ethernet speeds.

#### **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 example uses the GET option 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>
```

## History

Release version	History
5.0.0	This 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*

Specifies the name of the user-specified profile.

*hello-interval*

Specifies the hello interval. The interval can range from 50 through 30000 milliseconds. The default hello interval is set to 1000 milliseconds.

*num-entry*

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 example uses the GET option 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">
      <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-13 y:self="/rest/config/running/hardware/custom-profile/kap/kap1/bfd-13">
      <hello-interval>600</hello-interval>
      <num-entry>400</num-entry>
    </bfd-13>
    <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	This 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

- id*  
Specifies the interface name in [rbridge-id]/slot/port format.
- type*  
Specifies the interface type. Possible values are:
- ethernet**  
Sets the interface type as ethernet.
  - FibreChannel**  
Sets the interface type as FibreChannel.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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>
```

### 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	This 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

*id*

Specifies the port-group interface name in [rbridge-id]/slot/port format.

*type*

Configures the port type.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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*

Specifies the VLAN interface number.

#### *gve-name*

Specifies the VE interface number.

#### *name*

Specifies the Interface name in rbridge-id/port format for management and rbridge-id/slot/port format for Tengigabitethernet, Gigabitethernet, Hundredgigabitethernet, Fortygigabitethernet.

#### *cee*

Applies default CEE map 'default'.

#### *load-balance*

Sets the load balancing commands.

#### *mtu*

Specifies the size of the maximum transmission unit (MTU) of an interfaces. The value can range from 1300 through 9018 bytes.

#### *minimum-links*

Configures the least number of operationally UP links to declare port-channel UP.

#### *rspan-vlan*

Configures the VLAN as RSPAN VLAN.

#### *bpdu-drop*

Configures the drop received BPDUs. Refer to interface/{interface-type}/{interface-name}/bpdu-drop for information.

#### *channel-group*

Configures LACP channel commands. Refer to interface/{interface-type}/{interface-name}/channel-group for information.

*description*

Configures interface-specific description.

*dot1x*

Enables IEEE 802.1X Port-Based Access Control. Refer to `interface/{interface-type}/{interface-name}/dot1x` for information.

*edge-loop-detection*

Enables edge-loop-detection on the selected interface. Refer to `interface/{interface-type}/{interface-name}/ edge-loop-detection` for information.

*fabric*

Configures the Fabric Protocol parameters. Refer to `interface/{interface-type}/{interface-name}/fabric` for information.

*fcoeport*

Configures the port to be an FCoE port. Refer to `interface/{interface-type}/{interface-name}/fcoeport` for information.

*ip*

Configures the Internet Protocol (IP) parameters. Refer to `interface/{interface-type}/{interface-name}/ip` for information.

*ipv6*

Configures the Internet Protocol version 6 (IPv6) parameters. Refer to `interface/{interface-type}/{interface-name}/ipv6` for information.

*lACP*

Configures LACP commands. Refer to `interface/{interface-type}/{interface-name}/lACP` for information.

*lldp*

Configures the Link Layer Discovery Protocol (LLDP) parameters. Refer to `interface/{interface-type}/{interface-name}/lldp` for information.

*long-distance-isl*

Configures the link as long-distance-link. This option is supported only in TenGigabitEthernet only. Valid values are:

**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**

10000 meter distance link (Warning: It may disable other ISLs in the port group).

**30000**

30000 meter distance link (Warning: It may disable other ISLs in the port group and DCB/FCoE capabilities will no longer be supported).

*mac*

Configures MAC parameters. Refer to `interface/{interface-type}/{interface-name}/mac` for information.

*mac-learning*

Configures MAC learning parameters. Refer to `interface/{interface-type}/{interface-name}/mac-learning` for information.

*port-profile-port*

Sets the interface to AMPP profile mode. Refer to `interface/{interface-type}/{interface-name}/port-profile-port` for information.

*priority-tag*

Configures 802.1p priority tagging. Supported interface types are: Port-Channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

*qos*

Configures Quality of Service (QoS) parameters. Refer to `interface/{interface-type}/{interface-name}/qos` for information.

*rmon*

Configures Remote Monitoring Protocol (RMON) parameters. Refer to `interface/{interface-type}/{interface-name}/rmon` for information.

*deviceconnectivity*

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).

*service-policy*

Attaches Input/Output policy map. Refer to `interface/{interface-type}/{interface-name}/service-policy` for information.

*sflow*

Configures sFlow parameters. Refer to `interface/{interface-type}/{interface-name}/sflow` for information.

*shutdown*

Shuts down the selected interface.

*spanning-tree*

Configures Spanning tree commands. Refer to `interface/{interface-type}/{interface-name}/spanning-tree` for information.

*speed*

Sets speed informational parameter.

*storm-control*

Configures BUM Storm Control parameters. Refer to `interface/{interface-type}/{interface-name}/storm-control` for information.

*switchport*

Sets the switching characteristics of the Layer 2 interface. Refer to `interface/{interface-type}/{interface-name}/switchport` for information.

*track*

Configures the track interface parameters. Refer to `interface/{interface-type}/{interface-name}/track` for information.

*tunnel*

Configures tunneling parameters. Refer to `interface/{interface-type}/{interface-name}/tunnel` for information.

*udld*

Configures UDLD commands. Refer to `interface/{interface-type}/{interface-name}/udld` for information.

*vlan*

Configures VLAN commands. Refer to `interface/{interface-type}/{interface-name}/vlan` for information.

*vrf*

Assigns VRF to this Ethernet interface. Refer to `interface/{interface-type}/{interface-name}/vrf` for information.

*vrrp-group*

Configures VRRP parameters. Refer to `interface/{interface-type}/{interface-name}/vrrp-group` for information.

*private-vlan*



Configures VLAN as private VLAN. Refer to `interface/vlan/{vlan-number}/private-vlan` for information.

*transport-service*

Sets `tsid` for Transparent VLAN. Refer to `interface/vlan/{vlan-number}/transport-service` for information.

*vlag*

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 example uses the GET option 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-profile-port"/>
    <service-policy xmlns="urn:brocade.com:mgmt:brocade-policer" y:self="/rest/config/running/interface/TenGigabitEthernet/%2254/0/2%22/service-policy"/>
    <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/switchport"/>
    <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-group"/>
    <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"/>
  </TenGigabitEthernet>
</interface>
```

```

    <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-control"/>
    <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-learning"/>
    <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	This API call was introduced.
6.0.0	The API call was modified to include the parameters shutdown and deviceconnectivity.

## 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

#### *min-tx*

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.

#### *min-rx*

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.

#### *multiplier*

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 3 through 50. The default value is 3.

#### *shutdown*

Disables the BFD session.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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/interval">
    <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	This API call was introduced.

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

Configures, modifies, or retrieves all drop received BPDUs.

### Resource URIs

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

### Parameters

#### *enable*

Enables BPDUs-drop.

#### *direction*

Specifies the tunneling direction. Possible configurations are

#### **tx**

Disables tunneling in the transmit direction.

#### **rx**

Disables tunneling in the receive direction.

#### **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 example uses the GET option to retrieve the configuration details.

#### URI

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

#### Request Body

None

#### Response Body

```
<bpdu-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/bpdu-drop"/>
  <enable>true</enable>
  <direction>all</direction>
</bpdu-drop>
```

## History

Release version	History
5.0.0	This 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

#### *port-int*

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.

#### *mode*

Specifies the mode of Link Aggregation. Possible configurations are:

##### **active**

Enables the initiation of LACP negotiation on an interface.

##### **on**

Enables static link aggregation on an interface.

##### **passive**

Disables LACP on an interface.

#### *type*

Specifies the type of LAG. Possible configurations are:

##### **brocade**

Sets the Brocade proprietary hardware-based trunking.

##### **standard**

Sets the 802.3ad standard-based LAG.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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/channel-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.

### 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	This 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

#### *authentication*

Enables dot1x on a port.

#### *port-control*

Sets the port control command. Supported configurations are:

##### **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.

##### **force-authorized**

Forces a port to remain in an authorized state. This also allows connection from multiple clients.

##### **force-unauthorized**

Forces a port to remain in an unauthorized state.

#### *protocol-version*

Specifies the EAPOL version. The version can be set to 1 or 2. By default, the protocol version is set to 2.

#### *quiet-period*

Specifies the time between attempts at authentication. The value can range from 1 through 65535 seconds.

#### *reauthMax*

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.

#### *reauthentication*

Enables reauthentication on a port.

#### *re-authperiod*

Specifies the seconds between reauthorization attempts. The value can range from 1 through 4294967295 seconds. The default value is 3600 seconds.

#### *server-timeout*

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.

#### *supp-timeout*

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.

*tx-period*

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.

## Examples

The following example uses the GET option to retrieve the configuration details.

### NOTE

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

### 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	This 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

*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 example uses the GET option 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	This 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.  <b>NOTE</b> 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

*isl*

Enables fabric ISL status.

*enable*

Enables fabric ISL status or fabric trunk status.

*disable*

Disables neighbor discovery for this port.

*trunk*

Enables fabric trunk status.

*mode*

Specifies the D\_port mode. Supported configurations are:

**dynamic**

Enables the interface to support dynamic D\_Port testing.

**none**

Disables D\_Port testing support for the interface irrespective of the configuration on the other end of the link.

**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 example uses the GET option 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/fabric">
  <isl y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabric/isl">
    <enable>true</enable>
  </isl>
  <trunk y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabric/trunk">
    <enable>true</enable>
  </trunk>
  <dport y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabric/dport">
    <mode>static</mode>
  </dport>
  <neighbor-discovery y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/fabric/
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/fabric/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/fabric/isl

### Request Body

None

### Response Body

None



## History

Release version	History
5.0.0	This 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

*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 example uses the GET option 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>
```

### 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/fcoeport

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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	Configures, modifies, or retrieves 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

#### *address*

Configures the IP address of the DHCP server. Refer to `interface/{interface-type}/{interface-name}/ip/arp` for more information.

#### *policy*

Configures PBR settings. Refer to `interface/{interface-type}/{interface-name}/ip/policy` for more information.

#### *access-group*

Configures IP access group parameters. Refer to `interface/{interface-type}/{interface-name}/ip/access-group` for more information.

#### *ospf*

Configures the Open Shortest Path First (OSPF) parameters. Refer to `interface/{interface-type}/{interface-name}/ip/ospf` for more information.

#### *icmp*

Configures Internet Control Message Protocol (ICMP) parameters. Refer to `interface/{interface-type}/{interface-name}/ip/icmp` for more information.

#### *dhcp*

Configures Dynamic Host Configuration Protocol (DHCP) parameters. Refer to `interface/{interface-type}/{interface-name}/ip/dhcp` for more information.

*arp*

Configures Arp Inspection parameters. Refer to `interface/{interface-type}/{interface-name}/ip/arp` for more information.

*mtu*

Sets IP MTU value to interface.

*directed-broadcast*

Enables directed IP broadcasts forwarding.

*proxy-arp*

Enables proxy ARP.

*arp-aging-timeout*

Determines how long an ARP entry stays in cache. The timeout value can range from 0 through 240 minutes.

*pim-sparse*

Enables PIM sparse mode.

*pim*

Configures PIM parameters. Refer to `interface/{interface-type}/{interface-name}/ip/pim` for more information.

*multicast-boundary*

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 (`-`).

*igmp*

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 example uses the GET option 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	This 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

*ip-access-list*

Specifies the ACL name.

*ip-direction*

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 example uses the GET option to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/interface/ /%22195/1/7%22/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/%22195/1/7%22/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/%221/0/5%22/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/access-group

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

#### *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 example uses the GET option 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	This 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

*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 example uses the GET option to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/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/%22195/1/7%22/ip/arp">
  <inspection y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/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/O/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/O/1%22/ip/arp/inspection

### Request Body

None

### Response Body

None

## History

Release version	History
6.0.1	This 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

#### *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 example uses the GET option 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	This 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

#### *unreachable*

Enables destination unreachable messages.

#### *redirect*

Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages.

#### *address-mask*

Enables ICMP address mask.

#### *echo-reply*

Enables echo-reply.

#### *rate-limiting*

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 example uses the GET option 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	This 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

#### *last-member-query-count*

Specifies the last member query count value. The value can range from 2 through 10. The default value is 2.

#### *last-member-query-interval*

Specifies the last member query interval in milliseconds. The interval can range from 100 through 25500. The default value is 1000 milliseconds.

#### *query-interval*

Specifies the response time in seconds. The interval can range from 1 through 18000 seconds. The default value is 125 seconds.

#### *query-max-response-time*

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.

#### *robustness-variable*

Specifies the robustness value. The value can range from 2 through 10. The default value is 2.

#### *immediate-leave*

Enables immediate leave processing.

#### *startup-query-count*

Specifies the startup query count value. The value can range from 1 through 10. The default value is 2.

#### *startup-query-interval*

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 example uses the GET option to retrieve the configuration details.

### URI

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

### 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/igmp/last-member-query-interval`

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

#### *area*

Specifies the area id in IP address or decimal format.

#### *dead-interval*

Specifies interval after which a neighbor is declared dead. The interval can range from 3 through 65535 seconds.

#### *hello-interval*

Specifies the time interval between hello packets. The time interval can range from 1 through 65535.

#### *retransmit-interval*

Specifies the retransmit interval in seconds. The interval can range from 0 through 3600 seconds. The default value is 5 seconds.

#### *transmit-delay*

Specifies the transmit delay in seconds. The value can range from 0 through 3600 seconds. The default value is 1 second.

#### *key-activation-wait-time*

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.

#### *key-id*

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.

*key*

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

*md5-authentication-key*

Specifies the OSPF password.

*cost*

Specifies the interface cost. The value can range from 1 through 65535.

*all-external*

Blocks all external LSAs. Supported configurations are:

**allow-default-and-type4-out**

Allows default-route LSAs and Type 4 LSAs, but block all other LSAs.

**allow-default-out**

Allows default-route LSAs, but block all other LSAs.

**out**

Filters outgoing LSAs.

*mtu-ignore*

Disables OSPF MTU mismatch detection.

*network*

Specifies the network type. Supported configurations are:

**broadcast**

Sets network type as broadcast, such as Ethernet.

**non-broadcast**

Sets the network type as point-to-point.

**point-to-point**

Sets to point-to-point interface mode.

*passive*

Enables passive information.

*priority*

Specifies the priority value. The value can range from 0 through 255.

*intf-bfd-enable*

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 example uses the GET option 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	This 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

*ttl-threshold*

Configures TTL threshold value.

*dr-priority*

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 example uses the GET option to retrieve the configuration details.

#### URI

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

#### Request Body

None

#### Response Body

```
<pim xmlns="urn:brocade.com:mgmt:brocade-pim" y:self="/rest/config/running/interface/TenGigabitEthernet/
%22195/1/7%22/ip/pim">
  <dr-priority>15</dr-priority>
  <ttl-threshold>10</ttl-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/O/2%22/ip/pim

### 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/O/2%22/ip/pim/neighbor-filter

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

*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 example uses the GET option to retrieve the configuration details.

#### URI

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

#### Request Body

None

#### Response Body

```
<policy y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/policy">
  <route-map y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/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/%221/0/5%22/ip/policy/route-map

### 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%22/ip/policy/route-map

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

*ip-donor-interface-type*

Specifies the interface type.

*ip-donor-interface-name*

Specifies the interface name.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

#### *mtu*

Specifies the IPv6 MTU in bytes. The value can range 576 through 9018 bytes. The default value is 1500 bytes.

#### *hop-by-hop-trap*

Enables hop-by-hop trap on an interface.

#### *vrrp-suppress-interface-ra*

Suppresses interface router advertisement (RA) when VRRPv3 is configured on an interface.

#### *raguard*

Enables RA Guard.

#### *access-group*

Configures the Internet Protocol version 6 (IPv6) access group parameters. Refer to interface/{interface-type}/{interface-name}/ipv6/access-group for more information.

#### *address*

Configures the Internet Protocol version 6 (IPv6) address parameters. Refer to interface/{interface-type}/{interface-name}/ipv6/address for more information.

#### *dhcp*

Configures the IPv6 Dynamic Host Configuration Protocol V6 parameters. Refer to `interface/{interface-type}/{interface-name}/ipv6/dhcp` for more information.

#### *icmpv6*

Configures the IPv6 Internet Control Message Protocol(ICMP6) parameters. Refer to `interface/{interface-type}/{interface-name}/ipv6/icmpv6` for more information.

#### *nd*

Configures the IPv6 Neighbor Discovery commands. Refer to `interface/{interface-type}/{interface-name}/ipv6/nd` for more information.

#### *neighbor*

Configures the IPv6 Neighbor Discovery commands. Refer to `interface/{interface-type}/{interface-name}/ipv6/neighbor` for more information.

#### *ospf*

Configures the IPv6 Open Shortest Path First version 3 (OSPFv3). Refer to `interface/{interface-type}/{interface-name}/ipv6/ospf` for more information.

#### *policy*

Configures the IPv6 PBR. Refer to `interface/{interface-type}/{interface-name}/ipv6/policy` for more information.

#### *vrrp-group*

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 example uses the GET option 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"/>
  <address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config" y:self="/rest/config/running/interface/
TenGigabitEthernet/%22195/1/7%22/ipv6/address"/>
  <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/icmpv6"/>
  <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3" y:self="/rest/config/running/interface/
TenGigabitEthernet/%22195/1/7%22/ipv6/ospf"/>
  <vrrpv3e-group y:self="/rest/config/running/TenGigabitEthernet/%22195/1/7%22/vrrpv3-group"/>
</ipv6>
```

## History

Release version	History
5.0.0	This API call was introduced.
6.0.0	This 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

*ipv6-access-list*

Specifies the name of the standard or extended IP access list.

*ip-direction*

Specifies the binding direction.

### Usage Guidelines

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

### Examples

The following example uses the GET option to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/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/%22195/1/7%22/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/%221/0/5%22/ipv6

### Request Body

```
<access-group>
  <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	This 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

*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 example uses the GET option to retrieve the configuration details.

#### URI

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

#### Request Body

None

#### Response Body

```
<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config" y:self="/rest/config/running/interface/
TenGigabitEthernet/%22195/1/7%22/ipv6/address">
  <ipv6-address y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/2%22/ipv6/address/
ipv6-address/%221:2::2:1/24%22">
    <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.

### 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	This 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

#### *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 example uses the GET option 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">
  <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	This 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

#### *echo-reply*

Enables the generation of an IPv6 CMPv6 Echo Reply message.

#### *rate-limiting*

Specifies the rate limit ICMP error messages. The value can range from 1 through 4294967295 milliseconds. The default value is 1000 milliseconds.

#### *unreachable*

Prohibits routers from forwarding an IPv6 ICMPv6 destination Unreachable Code 3 message.

#### *redirect*

Enables IPv6 ICMPv6 redirect messages.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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>
```

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	This 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	Suppresses 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

#### *managed-config-flag*

Indicates to hosts on a local link that they must use the stateful autoconfiguration feature to obtain IPv6 addresses for their interfaces.

#### *other-config-flag*

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.

#### *ra-lifetime*

Specifies the time in seconds. The time can range from 0 through 9000. The default value is 1800.

#### *reachable-time*

Specifies the time in milliseconds. The value can range from 0 through 3600000 milliseconds. The default time is set to 0.

#### *mtu*

Specifies the size, in bytes, of the MTU that is advertised. The value can range from 1280 through 65535. The default value is 1500.

#### *retrans-timer*

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.

#### *hoplimit*

Specifies the number of hops to be advertised. The number can range from 0 through 255. The default value is 64.

#### *ns-interval*

Specifies the number of seconds between neighbor solicitation messages. The value can range from 1 through 5 seconds. The default value is 1 second.

#### *proxy*

	Enables proxy setting.
<i>all</i>	Suppresses response to RS in addition to not sending RAS.
<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 <b>all</b> and <b>mtu</b> . Configuring <b>all</b> disables the sending of all RA messages, including those sent in response to a solicitation. Configuring <b>mtu</b> disables the sending of MTUs in RA messages.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This API call was introduced.
6.0.0	This 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

*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 example uses the GET option 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>
  <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	This 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

#### *area*

Specifies area address in dotted decimal format or IPv6 address.

#### *passive*

Sets a specific OSPFv3 interface to passive.

#### *bfd-enable*

Enables BFD on a specific OSPFv3 interface.

#### *cost*

Specifies the cost value. The values can range from 1 through 65535. The default value is 1.

#### *instance*

Specifies the Instance identification number. The values can range from 0 through 255.

#### *mtu-ignore*

Enables maximum transmission unit (MTU) match checking.

#### *network*

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.

#### *priority*

Specifies the priority value. The values can range from 0 through 255. The default value is 1.

#### *suppress-linklsa*

Suppresses link LSA advertisements.

#### *disable*

Disables IPsec authentication.

#### *key-add-remove-interval*

Configures OSPFv3 authentication key add/remove interval.

#### *hello-interval*

Specifies the hello interval in seconds. The values can range from 1 through 65535 seconds. The default interval is 10 seconds.

#### *dead-interval*

Specifies the dead interval in seconds. The value can range from 3 through 65535 seconds. The default interval is 40 seconds.

#### *hello-jitter*

Specifies the allowed interval between hello packets. The values can range from 1 through 50 percent (%).

#### *retransmit-interval*

Specifies the retransmit interval in seconds. The values can range from 0 through 3600 seconds. The default value is 5 seconds.

#### *transmit-delay*

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 example uses the GET option 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	This API call was introduced.
6.0.1	This API call was modified to include the new URI <base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf/bfd.
6.0.1a	This 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

*route-map-name*

Specifies the route-map name.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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	Configures VRRPv3. Supported interface types are: Port-Channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet, and VLAN.

### Parameters

#### *priority*

Configures the interface priority value.

#### *vid*

Specifies the Virtual router identifier number.

#### *virtual-ipaddr*

Configures the Virtual IPv4 address.

#### *interface-type*

Specifies the interface type.

#### *interface-name*

Specifies the interface name.

#### *track-priority*

Configures the track priority.

#### *enable*

Enables VRRP session.

#### *hold-time*

Configures hold time for this session.

#### *preempt-mode*

Sets preempt mode for the session.

#### *description*

Sets the description describing this interface.

#### *advertise-backup*

Enables periodic backup advertisement messages.

#### *broadcast-mac-trap*

Enables the trap for all the IPv6 packets with broadcast MAC.

#### *nd-advertisement-timer*

Configures neighbor discovery advertisement interval.

#### *advertisement-interval-scale*

Configures the IPv4 session advertisement interval scale factor.

#### *backup-advertisement-interval*

Configures backup advertisement interval.

*vrrpe-advertisement-interval*

Configures VRRP advertisement interval.

*revert-priority*

Sets revert priority.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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

## History

Release version	History
5.0.0	This 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

#### *timeout*

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.

#### *std\_port-priority*

Specifies the priority. The value can range from 1 through 65535. A lower number takes priority over a higher number.

#### *default-up*

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 example uses the GET option 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

### 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	This 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

#### *dcbx-version*

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.

#### *disable*

Disables the Link Layer Discovery Protocol (LLDP) on the interface.

#### *iscsi-priority*

Specifies the priority value. The value can range from 0 through 7.

#### *profile*

Specifies the profile name.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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.

### 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	This 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

#### *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 example uses the GET option 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/access-group/
acl2%2Cin">
    <mac-access-list>acl2</mac-access-list>
    <mac-direction>in</mac-direction>
  </access-group>
</mac>
```

### History

Release version	History
5.0.0	This 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

*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 example uses the GET option 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>
```

### History

Release version	History
5.0.0	This 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

*logical-instance-id*

Specifies the logical instance number.

*enable*

Enables the OpenFlow mode on an interface.

*match-profile*

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 example uses the GET option 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>
```

## History

Release version	History
6.0.1	This 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

*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 example uses the GET option 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>
```

### History

Release version	History
5.0.0	This 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, and 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

*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 example uses the GET option 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	This API call was introduced.
6.0.0	This API call 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

#### *ether-stats-index*

Configures the RMON ether statistics collection index number.

#### *owner*

Specifies the identity of the owner. The maximum number of characters is 15.

#### *history-control-index*

Specifies the RMON collection control index value. The value can range from 1 through 65535.

#### *buckets*

Specifies the maximum number of buckets for the RMON collection history. The value can range from 1 through 65535.

#### *interval*

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 example uses the GET option 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

## History

Release version	History
5.0.0	This 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

*in*

Specifies the input policy map name.

*out*

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 example uses the GET option 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%22/service-policy">
  <in>policymap1</in>
  <out>policymap1</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>
  <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	This 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

#### *enable*

Enables sFlow on the interface.

#### *polling-interval*

Specifies the polling interval in seconds. The value can range from 1 through 65535 seconds.

#### *sample-rate*

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 example uses the GET option 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

### 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	This 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

*enable*

Enables sFlow on the interface.

*polling-interval*

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 example uses the GET option to retrieve the configuration details.

#### URI

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

#### Request Body

None

#### Response Body

```
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	This 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

#### *cost*

Specifies the path cost for the Spanning Tree Protocol (STP) calculations. The value can range from 1 through 2000000000.

#### *bpdu-filter*

Sets the edge port Bridge Protocol Data Unit (BPDU) filter for the port.

#### *bpdu-guard*

Guards the port against the reception of BPDUs.

#### *portfastbasic*

Enables the Port Fast feature on an interface to allow the interface to quickly transition to forwarding state.

#### *bpdu-mac*

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.

#### *root*

Enables the guard root.

#### *priority*

Specifies the port priority for a bridge in increments of 16. The value can range from 0 through 240.

#### *link-type*

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.

#### *restricted-role*

Specifies to restrict the role of a port.

#### *restricted-tcn*

Specifies to restrict the propagation of the topology change notifications from a port.

#### *shutdown*

Enables or disables spanning tree on the interface.

#### *id*

Specifies the MSTP instance. The value can range from 1 through 32.

#### *autoedge*

Enables automatic edge detection.

#### *hello-time*

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.

*edgeportbasic*

Enables the edge port on an interface.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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>
    <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/spanning-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/spanning-tree

**Request Body**

None

**Response Body**

None

**History**

Release version	History
5.0.0	This 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

#### *protocol-type*

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.

#### *rate-format*

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.

#### *rate-bps*

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.

#### *bum-action*

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 example uses the GET option 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/storm-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/storm-control/ingress`

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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	Sets 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 Layer 2 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 Layer 2 interface as trunk.

### Parameters

#### *switchport*

Enables switching characteristics of the Layer 2 interface.

#### *max*

Configures the maximum number of allowed MAC addresses.

#### *native-vlan*

Specifies a VLAN to transmit and receive through the Layer 2 interface.

#### *trunk-basic*

Sets the Layer 2 interface as private-vlan trunk basic.

#### *trunk-promiscuous*

Sets the Layer 2 interface as private-vlan trunk promiscuous.

#### *trunk-host*

Sets the Layer 2 interface as private-vlan trunk host.

#### *accessvlan*

Specifies the VLAN ID.

#### *rspan-access-vlan*

Specifies the RSPAN VLAN ID to set as access VLAN.

#### *pvlan\_all*

Allows all VLANs to Xmit/Rx through the Layer 2 interface.

#### *pvlan\_none*

Allows no VLANs to Xmit/Rx through the Layer 2 interface.

#### *pvlan\_add*

Adds a VLAN to Xmit/Rx through the Layer 2 interface.

*pvlan\_except*

Allows all VLANs except VID to Xmit/Rx through Layer 2 interface.

*pvlan\_remove*

Removes a VLAN that Xmit/Rx through the Layer 2 interface.

*pvlanNativevlan*

Specifies the VLAN interface number.

*pvlan-native-vlan-ctag-id*

Associates a Ctag as Private VLAN.

*host-pri-pvlan*

Specifies the VLAN interface number.

*host-sec-pvlan*

Specifies the host VLAN interface number.

*trunk-pri-pvlan*

Specifies the trunk primary VLAN ID.

*trunk-sec-pvlan*

Specifies the trunk secondary VLAN ID.

*promis-pri-pvlan*

Specifies the primary VLAN ID.

*oper*

Sets the operation to be performed as **add** (Adds Secondary VLAN IDs) or **delete** (Remove secondary VLAN IDs).

*promis-sec-pvlan-range*

Specifies the secondary VLAN identification.

*all*

Specifies all Dot1q VLANs to add.

*none*

Specifies 'no dot1q vlans'.

*add*

Specifies list of VLANs to be added.

*except*

Specifies exception list of VLANs.

*remove*

Specifies the list of VLANs to be removed.

*add-rspan-trunk-vlan*

Specifies the RSPAN VLAN IDs to add.

*remove-rspan-trunk-vlan*

Specifies the list of RSPAN VLANs to be removed.

*trunk-vlan-id*

Specifies the trunk VLAN ID.

*trunk-ctag-id*

Specifies the Ctag ID.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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/switchport">
  <switchport>true</switchport>
  <mode y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/mode">
    <private-vlan y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/
mode/private-vlan">
      <trunk y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/mode/
private-vlan/trunk">
        <trunk-basic>true</trunk-basic>
        <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/switchport/
port-security">
    <max>5</max>
  </port-security>
  <access y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/access">
    <accessvlan>2000</accessvlan>
    <rspan-access y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/
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/switchport/
private-vlan">
    <trunk y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/private-
vlan/trunk">
      <allowed y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/
private-vlan/trunk/allowed">
        <vlan y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/
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/switchport/
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/
switchport/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/switchport/
private-vlan/association">
```

```

    <trunk y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/
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/switchport/
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/switchport/trunk">
  <allowed y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/trunk/
allowed">
    <vlan y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/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/switchport/
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/switchport/trunk/allowed/trunk-rspan-vlan-classification">
      <rspan-vlan y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/
switchport/trunk/allowed/trunk-rspan-vlan-classification/rspan-vlan">
        <add y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switchport/
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/switchport/
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>

## 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	This 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

*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 example uses the GET option 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%2Ctengigabitethernet">
    <track-interface-type>track-interface-type-port-channel</track-interface-type>
    <track-interface-name>TenGigabitEthernet</track-interface-name>
  </interface>
</track>
```



The following is an example of the POST operation to track a TenGigabitEthernet interface.

### 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	This 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

*channel*

Specifies the channel number.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*tagged-ieee-bpdu*

Activates IEEE BPDU packets.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*enable*

Enables UDLD protocol on the interface.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*vrid*

Specifies the Virtual router identifier number.

*version*

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 example uses the GET option to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%22102/5/1%22/vrrp-group

#### Request Body

None

#### Response Body

```
<vrrp-group y:self="/rest/config/running/interface/TenGigabitEthernet/%22102/5/1%22/vrrp-group/>
  <vrid>2</vrid>
  <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/O/1%22/vrrp-group/89%22`

### 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/O/1%22/vrrp-group/89%2C2/enable`

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

*ip-gw-id*

Specifies the gateway ID.

*gateway-address*

Specifies the IPv4 address in the format A.B.C.D/L.

*timer*

Specifies the gratuitous ARP timer in seconds. The value can range from 0 through 360 seconds.

*hold-time*

Specifies the hold time in seconds.

*load-balancing-disable*

Disables load balancing globally.

*enable*

Enables IPv4 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 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	This API call was introduced.
6.0.0	This API call was not supported.
6.0.1	This 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

*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/gateway-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	This API call was introduced.
6.0.0	This API call was not supported.
6.0.1	This 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

*trust*

Enables dynamic ARP inspection (DAI) on a VLAN.

*acl-name*

Specifies which ACL is applied to the VLAN.

*acl-match*

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 example uses the GET option 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

### Request Body

None

### Response Body

None



## History

Release version	History
6.0.1	This 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

#### *pvlan-type-leaf*

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.

#### *add*

Adds the association.

#### *remove*

Specifies the range of VLANs to remove.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*enable*

Enables ARP suppression on the current VLAN.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*enable*

Enables ND suppression on the current VLAN.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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*

Configures the tlsid number.

*transport-service*

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 example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*address*

Specifies the IPv6 address.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

#### *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 example uses the GET option 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	This 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

*link-local-address*

Specifies the IPv6 link-local address.

*link-local*

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 example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*ignore-split*

Enables vLAG ignore-split-recovery.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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.
<base_URI>/config/running/ip/mtu	Configures the IP MTU value.

### Parameters

#### *access-list*

Configures IP access list parameters. Refer to `ip/access-list` for more information.

#### *igmp*

Configures IGMP parameters. Refer to `ip/dns` for more information.

#### *dns*

Configures DNS parameters. Refer to `ip/igmp` for more information.

#### *mtu*

Sets the IP MTU value to all interfaces of this cluster.

### Usage Guidelines

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

### Examples

The following is an example of the POST operation to configure the IP MTU value.

#### URI

`http://host:80/rest/config/running/ip/mtu`

#### Request Body

```
<ip>
  <mtu>9018</mtu>
</ip>
```

#### Response Body

None



The following example uses the GET option 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">
    <standard y:self="/rest/config/running/ip/access-list/standard/stdACL3">
      <name>stdACL3</name>
    </standard>
  </access-list>
  <mtu>9018</mtu>
  <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping" y:self="/rest/config/running/ip/igmp">
    <snooping y:self="/rest/config/running/ip/igmp/snooping">
      <enable>true</enable>
    </snooping>
  </igmp>
  <dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration" y:self="/rest/config/running/ip/dns">
    </dns>
</ip>
```

## History

Release version	History
5.0.0	This API call was introduced.
7.0.1	This API call was modified to include <b>mtu 9018</b> .

## 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*

Specifies the IPv4 access list name.

*seq*

Specifies the sequence number.

*seq-id*

Specifies the sequence number for the rule.

*action*

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.

*src-host-any-sip*

Specifies any source host IP address.

*src-host-ip*

Specifies the source host IP address.

*src-mask*

Configures the source IP address mask.

*count*

Enables the counting of the packets matching the rule.

*log*

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.

*protocol-type*

The type of protocol used.

*dst-host-any-dip*

Specifies any destination host IP address.

*dst-host-ip*

Specifies the destination host IP address.

*vlan*

Specifies the VLAN interface number.

*dscp*

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 example uses the GET option 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>
  </standard>
</access-list>
```

```

</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>
  <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	This 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

#### *domain-name*

Specifies the domain name.

#### *name-server*

The IPv4 or IPv6 address for name server.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*enable*

Enables IGMP snooping.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This API call was introduced.

## ip/mtu

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

### Resource URIs

URI	Description
<base_URI>/config/running/ip/mtu	Configures the IP MTU value.

### Usage Guidelines

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

### Examples

The following is an example of the POST operation to configure the IP MTU value.

#### URI

http://host:80/rest/config/running/ip/mtu

#### Request Body

```
<ip>
  <mtu>9018</mtu>
</ip>
```

#### Response Body

None

The following example uses the GET option 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">
  <mtu>9018</mtu>
</ip>
```

The following example is an example of the PATCH operation to modify the IP MTU value.

### URI

http://host:80/rest/config/running/ip/mtu

### Request Body

```
<ip>
  <mtu>9000</mtu>
</ip>
```

### Response Body

None

The following example is an example of the DELETE operation to remove the IP MTU value.

### URI

http://host:80/rest/config/running/ip/mtu

### Request Body

None

### Response Body

None

## History

Release version	History
7.0.1	This 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.
<base_URI>/config/running/ipv6/mtu	Configures the IPV6 MTU value.

### Parameters

*mld*

Configures Multicast Listener Discovery (MLD) Snooping parameters. Refer to `ipv6/mld` for information.

*access-list*

Configures IPv6 access list parameters. Refer to `ipv6/access-list` for more information.

*mtu*

Sets the IP MTU value to all interfaces of this cluster.

### Usage Guidelines

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

### Examples

The following is an example of the POST operation to configure the IPv6 MTU value.

#### URI

`http://host:80/rest/config/running/ipv6/mtu`

#### Request Body

```
<ipv6>
  <mtu>9018</mtu>
</ipv6>
```

#### Response Body

None

The following example uses the GET option 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">
    <snooping y:self="/rest/config/running/ipv6/mld/snooping">
      </snooping>
    </mld>
    <access-list xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list" y:self="/rest/config/running/ipv6/access-list">
      </access-list>
      <mtu>9018</mtu>
    </ipv6>
```

The following example is an example of the PATCH operation to modify the IPv6 MTU value.

## URI

http://host:80/rest/config/running/ipv6/mtu

## Request Body

```
<ipv6>
  <mtu>9000</mtu>
</ipv6>
```

## Response Body

None

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

## URI

http://host:80/rest/config/running/ipv6/mtu

## Request Body

None

## Response Body

None

## History

Release version	History
5.0.0	This API call was introduced.
7.0.1	This API call was modified to include <b>mtu 9018</b> .

## 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*

Specifies the IPv6 access list name.

*seq*

Specifies the sequence number.

*seq-id*

Specifies the sequence number for the rule.

*action*

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.

*src-host-any-sip*

Specifies any source host IP address.

*src-host-ip*

Specifies the source host IP address.

*count*

Enables the counting of the packets matching the rule.

*log*

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.

*protocol-type*

The type of protocol used.

*dst-host-any-dip*

Specifies any destination host IP address.

*dst-host-ip*

Specifies the destination host IP address.

*vlan*

VLAN interface number.



## Usage Guidelines

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

## Examples

The following example uses the GET option 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>

```

## 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	This 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

*enable*

Enables MLD Snooping.

*restrict-unknown-multicast*

Restricts Unknown Multicast traffic.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This API call was introduced.

## ipv6/mtu

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

### Resource URIs

URI	Description
<base_URI>/config/running/ipv6/mtu	Configures the IPV6 MTU value.

### Usage Guidelines

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

### Examples

The following is an example of the POST operation to configure the IPv6 MTU value.

#### URI

http://host:80/rest/config/running/ipv6/mtu

#### Request Body

```
<ipv6>
  <mtu>9018</mtu>
</ipv6>
```

#### Response Body

None

The following example uses the GET option 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">
  <mtu>9018</mtu>
</ipv6>
```

The following example is an example of the PATCH operation to modify the IPv6 MTU value.

### URI

http://host:80/rest/config/running/ipv6/mtu

### Request Body

```
<ipv6>
  <mtu>9000</mtu>
</ipv6>
```

### Response Body

None

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

### URI

http://host:80/rest/config/running/ipv6/mtu

### Request Body

None

### Response Body

None

## History

Release version	History
7.0.1	This API call was introduced.

## isis

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

#### URI

#### Request Body

#### Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...



## lacp

Configures, modifies, or retrieves LACP commands.

### Resource URIs

URI	Description
<base_URI>/config/running/lacp	LACP commands.

### Parameters

#### *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 example uses the GET option 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	This 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

*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 example uses the GET option 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.co                               m/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	This 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

*hostname*

LDAP server host name.

*port*

TCP authentication port. The number of characters can range from 1 through 255.

*retries*

Number of retries for this server connection. The number of retries can range from 0 through 100. The default number of retries is 5.

*timeout*

Number of retries for this server connection. The number of retries can range from 0 through 100. The default number of retries is 5.

*use-vrf*

Specifies the VRF name.

*basedn*

Base domain name. The number of characters can range from 1 through 255.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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.

### 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	This API call was introduced.
7.0.0	This 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

*ad-group*

AD group belongs to user on the AD Server.

*role*

Specifies the role name.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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>
```

### 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	This API call was introduced.



## ifs

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

lif

## Resource URIs

URI	Description

## Parameters

## Usage Guidelines

## Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

## History

Release version	History
	This API call was introduced.
	This API call was modified to...

## line

Configures, modifies, or retrieves CLI session configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/line	CLI session.

### Parameters

#### *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 example uses the GET option 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

## History

Release version	History
5.0.0	This 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

*auditlog*

Configures audit log.

*raslog*

Configures raslog message or module.

*syslog-client*

Configures syslog client.

*syslog-facility*

Configures syslog facility.

*syslog-server*

Configures up to four syslog server address.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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"/>
  <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	This 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

*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 example uses the GET option 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>
```

### 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	This 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

*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 example uses the GET option 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	This 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

*localip*

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 example uses the GET option 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	This 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

*local*

Specifies SYSLOG facility.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*syslogip*

Specifies the IPv4 or IPv6 address.

*port*

Port number on which the syslog server is listening.

*secure*

Indicates if transport is secure.

*use-vrf*

Specifies the VRF name.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This API call was introduced.
7.0.0	This 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*

Specifies the MAC access list name.

*seq*

Configure the sequence number.

*seq-id*

Specifies the sequence ID.

*action*

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

*source*

Specifies the source details.

*dst*

Specifies details on the destination.

*dsthost*

Specifies the destination host.

*ethertype*

Filters extended ACLs traffic based on ethertype.

*vlan*

Specifies the VLAN number.

*log*

Enables log.

*count*

Displays the count of forwarding entries.

*srchost*

Specifies the source host.



## Usage Guidelines

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

## Examples

The following example uses the GET option 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">
        <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/acl5/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/acl2

## Request Body

None

## Response Body

None

## History

Release version	History
5.0.0	This 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

#### *learning-mode*

Enables conversational learning mode.

#### *aging-time*

Configures conversational aging time.

#### *consistency-check*

Configures MAC consistency check.

#### *mac-move*

Configures MAC move.

#### *static*

Configures static address.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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%2Cport-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	This 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

*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 example uses the GET option 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>
```

#### Response Body

None

## History

Release version	History
5.0.0	This 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

#### *suppress*

Suppresses MAC consistency check.

#### *interval*

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 example uses the GET option 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	This 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

*detect*

Enables MAC move detect.

*limit*

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 example uses the GET option 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	This 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

#### *mac-address*

Specifies the MAC address. MAC address in HHHH.HHHH.HHHH format.

#### *forward*

Forwards the MAC address to the interface.

#### *interface-type*

Specifies the interface type.

#### *interface-name*

Specifies the interface name.

#### *vlanid*

Specifies the VLAN number.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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%2Cport-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	This 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

*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 example uses the GET option 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	This API call was introduced.



## mct

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## monitor

Configures, modifies, or retrieves SPAN sessions.

### Resource URIs

URI	Description
<base_URI>/config/running/monitor	Entering SPAN sessions.

### Parameters

*session-number*

Specifies the session ID. The value can range from 1 through 512.

*destination*

Specifies the destination port.

*source*

Specifies the source port.

*description*

Specifies the session description.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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	This API call was introduced.

## mpls

Configures and manages the MPLS protocol.

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
16r.1.00	This API call was introduced.

## mtu 9216

Sets the Layer 2 MTU value to all interfaces of this cluster.

### Resource URIs

URI	Description
<base_URI>/config/running/mtu	Sets the Layer 2 MTU value to all interfaces of this cluster.

### Parameters

*mtu*

Specifies MTU in bytes. The range is from 1522 to 9216 bytes. The default MTU value is 9216.

### Usage Guidelines

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

### Examples

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

#### URI

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

#### Request Body

None

#### Response Body

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
  <mtu>9200</mtu>
</interface>
```

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

#### URI

http://host:80/rest/config/running/mtu

#### Request Body

```
<mtu>9016</mtu>
```

#### Response Body

None

The following is an example of the DELETE operation to delete the MTU value.

### URI

http://host:80/rest/config/running/mtu

### Request Body

None

### Response Body

None

## History

Release version	History
7.0.1	This 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

*auto-qos*

Configures Automatic Quality of Service parameters.

*server-ip*

Configures NAS server IP address parameters.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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

## History

Release version	History
5.0.0	This 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

*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 example uses the GET option 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>
  <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	This 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*

Specifies the name of the NSX controller.

*activate*

Activates an NSX controller connection profile.

*reconnect-interval*

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

### 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	This 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

*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 example uses the GET option to retrieve the 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>
```

### 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	This 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

*authentication-key*

Configures authentication key parameters.

*server*

Configures NTP server parameters.

*source-ip*

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 example uses the GET option 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	This API call was introduced.
6.0.1	This 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

*keyid*

Specifies authentication key ID. The value can range from 65535.

*sha1*

SHA1 encryption.

*encryption-level*

Specifies the encryption level.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*controller-name*

Specifies the name of the Openflow controller.

*address*

Specifies the IP address of OpenFlow controller.

*method*

Sets the connection method. Set the connection method as **no-ssl** (Connect using TCP) or **ssl** (Connect using SSL).

*port*

Specifies the OpenFlow controller port number.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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*

Specifies the Overlay Gateway name.

*type*

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 example uses the GET option 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	This API call was introduced.
7.0.0	This API call was modified to deprecate the <b>nsx</b> keyword and replace it with the <b>hardware-vtep</b> 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

*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 example uses the GET option 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	This 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

#### *direction*

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.

#### *vlan*

Specifies the action. Supported actions are **add** and **remove**. Configuring add specifies the VLANs to add. Configuring remove specifies the VLANs to remove.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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-virtual-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>
```

## History

Release version	History
6.0.0	This 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	Pv6 Overlay gateway instance.

### Parameters

*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 example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*vni*

Specifies VLAN to VNI mapping for overlay gateway.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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">
      <vni>5</vni>
    </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/og1/map/vlan-vni-mapping/100

### Request Body

None

### Response Body

None

## History

Release version	History
6.0.0	This 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

*session*

Specifies session number.

*direction*

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.

*remote-endpoint*

Specifies tunnel destination end point address.

*vlan-add*

Adds target VLAN IDs.

*vlan-range*

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 example uses the GET option 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	This 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*

Specifies the site name.

*address*

Specifies tunnel destination IP address.

*add*

Specifies the VLAN IDs to add.

*protocol*

Specifies control plane MAC learning protocol. Supported protocol is BGP. Configuring BGP enables BGP-EVPN-based MAC learning.

*bfd*

Enables BFD session.

*min-tx*

Specifies BFD desired minimum transmit interval in milliseconds. The value can range from 100 through 30000. The default value is 100.

*min-rx*

Specifies BFD desired minimum receive interval in milliseconds. The value can range from 300 through 30000. The default value is 300.

*multiplier*

Specifies BFD detection time multiplier. The value can range from 3 through 50. The default value is 3.

*shutdown*

Disables tunnels to the remote site.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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`

### Request Body

None

### Response Body

None

## History

Release version	History
6.0.0	This API call was introduced.
6.0.1	This API call was modified to include the new URI <code>&lt;base_URI&gt;/config/running/overlay-gateway/{overlay-gateway name}/site/{site-name}/bfd</code> .



## opstest

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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*

Specifies the name of an OVSDb SSL server.

*activate*

Activates an Open vSwitch Database SSL server for OpenStack deployments.

*port*

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 example uses the GET option 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

### 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

#### *max-lockout-duration*

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.

#### *admin-lockout*

Enables lockout for admin role.

#### *min-length*

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.

#### *max-retry*

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.

#### *character-restriction*

Configures restriction on various types of characters.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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>
```

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	This API call was introduced.
6.0.1	This 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

#### *lower*

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.

#### *numeric*

Specifies the minimum number of numeric characters. The value can range from 0 through 32. The default value is 0.

#### *special-char*

Specifies the minimum number of special characters. The value can range from 0 through 32 characters. The default value is 0 characters.

#### *upper*

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 example uses the GET option 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

## 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	This API call was introduced.



pId

## Resource URIs

URI	Description

## Parameters

## Usage Guidelines

## Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

## History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

*po-name*

Specifies policy map name.

*cl-name*

Specifies class map name.

*cir*

Specifies committed information rate. The value can range from 40000 through 100000000000 cir bits per second.

*conform-set-dscp*

Configures DSCP priority for conforming traffic.

*conform-set-tc*

Specifies traffic class value for conformant traffic. The value can range from 0 through 7.

*exceed-set-dscp*

Specifies DSCP priority for exceeded traffic. The value can range from 0 through 63.

*exceed-set-tc*

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 example uses the GET option to retrieve the 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>
      <pbs>1300</pbs>
      <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	This 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

*group-id*

Specifies port channel redundancy group number. The number can range from 1 through 255.

*activate*

Activates the port-channel redundancy group.

*port-channel*

Configures the port channel parameters.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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>
```

### History

Release version	History
6.0.0	This 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*

Specifies port channel interface number. The value can range from 1 through 6144.

*active*

Selects port channel as active in port channel redundancy group.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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

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	This 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*

Specifies the port profile name.

*non-profiled-macs*

Specifies whether non-profiled MAC addresses on the profiled port are dropped.

*switchport*

Sets the switching characteristics of the Layer 2 interface.

*vlan-mode*

Sets mode of the Layer 2 interface.

*native-vlan*

Sets the native VLAN to classify untagged traffic.

*fcoe-map-name*

Specifies the FCoE Fabric map name.

*restrict-flooding*

Enables restrict flooding.

*activate*

Specifies if this port-profile needs to be activated or not.

*mac-address*

Configures MAC address for a port-profile.

*cee*

Specifies the CEE map name.

*cos*

Specifies default CoS value. The value can range from 0 through 7.

*trust-cos*

Specifies that trust L2 CoS field in incoming packets for deriving internal Traffic Class.

*cos-mutation*

Configures CoS-to-CoS mutation value.

*pfc-cos*

Specifies the CoS value.

*pfc-tx*

Specifies pause generation. Supported configurations are **on** and **off**. Configuring on enables pause generation. Configuring off disables pause generation.

*pfc-rx*

	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 example uses the GET option 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-profile>
    </qos-profile>
  </port-profile>
```

```

    </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-
group">
      <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	This 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

*port-profile-domain-name*

Specifies the name of the port profile domain.

*profile-name*

Specifies the port profile name.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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/UpgradedProfile

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

#### *rbridge-id*

Specifies unique identifier for the switch. The value can range from 1 to 239.

#### *wwn*

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 example uses the GET option 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>11:11:11:11:11:11:18</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	This 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

*cdp*

Configures Cisco Discovery Protocol.

*edge-loop-detection*

Configures ELD parameters.

*lldp*

Configures Link Layer Discovery Protocol.

*spanning-tree*

Configures Spanning tree.

*udld*

Configures Unidirectional Direction Protocol.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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	This 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

*cdp*

Enables Cisco Discovery Protocol.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

#### *shutdown-time*

Specifies shutdown time limit. The value can range from 0 through 1440 minutes. The default value is 0.

#### *hello-interval*

Specifies hello interval limit. The interval can range from 100 through 5000 milliseconds. The default hello interval is set to 1000 milliseconds.

#### *pdu-rx-limit*

Specifies bpdu-rx-limit. The value can range from 1 through 5. The default value is 1.

#### *mac-refresh-time*

Specifies refresh time for MAC. The value can range from 60 through 300 seconds.

#### *mac-refresh-type*

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 example uses the GET option 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>
  </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	This 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

#### *mode*

Specifies the LLDP mode. Supported modes are **rx** and **tx**. Configuring rx enables LLDP receive only mode. Configuring tx enables LLDP transmit only mode.

#### *description*

Specifies user description for LLDP.

#### *advertise*

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**.

#### *system-name*

Specifies system name.

#### *system-description*

Specifies system description.

#### *iscsi-priority*

Specifies the iSCSI Ethernet priority value. The value can range from 0 through 7.

#### *profile-name*

Specifies the profile name.

#### *pdu-rx-limit*

Sets pdu-rx-limit.

#### *dot1-tlv*

Enables IEEE 802.1 organizationally specific TLV.

#### *dot3-tlv*

Enables IEEE 802.3 organizationally specific TLV.

#### *optional-tlv*

Advertises the optional Type, Length, and Values (TLV) values.

#### *description*

Configures the user description.

#### *rx*

Specifies to enable only the receive mode.

#### *tx*

Specifies to enable only the transmit mode.

#### *profile*

Configures the LLDP profile name.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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>dotluser</description>
    <advertise y:self="/rest/config/running/protocol/lldp/profile/profile1/advertise">
      <dot1-tlv>true</dot1-tlv>
    <optional-tlv y:self="/rest/config/running/protocol/lldp/profile/profile1/advertise/optional-
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	This 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

#### *spanning-tree*

Displays the protocol configuration information for MSTP.

#### *stp*

Specifies Rapid Per-VLAN Spanning Tree Protocol Plus.

#### *description*

Specifies spanning tree description.

#### *bridge-priority*

Specifies the bridge priority. The value can range from 0 through 61440 and bridge priority must be set in increments of 4096.

#### *error-disable-timeout*

Enables timeout for the port to be enabled back.

#### *interval*

Specifies time interval after which port will be enabled. The value can range from 10 through 1000000 seconds.

#### *forward-delay*

Specifies forward delay time. The delay time can range from 4 through 30 seconds. The default delay time is set to 15 seconds.

#### *max-age*

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.

#### *max-hops*

Specifies the maximum hops the BPDU will be valid for. The value can range from 1 through 40.

#### *port-channel*

Displays the status of port-channel for spanning-tree.

#### *path-cost*

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.

#### *shutdown*

Turns off the Spanning Tree Protocol.

#### *hello-time*

Shuts down the spanning tree protocol.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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	This 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

*udld*

Enables unidirectional link detection (UDLD) protocol configuration mode.

*hello*

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).

*multiplier*

Specifies a multiplier value to use. The value can range from 3 through 10. The default value is 5.

*shutdown*

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 example uses the GET option 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>
  <hello>25</hello>
</udld>
```

### Response Body

None

## History

Release version	History
5.0.0	This API call was introduced.

## pw-profile

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## qos

Configures, modifies, or retrieves Quality of Service (QoS).

### Resource URIs

URI	Description
<base_URI>/config/running/qos	Quality of Service (QoS).

### Parameters

*dscp-mutation-map-name*

Specifies Dscp-to-Dscp mutation map name.

*dscp-in-values*

Specifies incoming DSCP value. The value can range from 0 though 63.

*to*

Specifies DSCP mutation out value. The value can range from 0 through 7.

*dscp-traffic-class-map-name*

Specifies DSCP traffic class map name.

*dscp-in-values*

Specifies incoming DSCP value. The value can range from 0 through 63.

*dscp-cos-map-name*

Specifies Dscp-to-CoS mutation map name.

*dscp-in-values*

Specifies incoming DSCP value. The value can range from 0 through 63.

*name*

Configures the name of the map.

*cos*

Configures CoS mutated CoS value.

*profile-id*

Specifies the profile ID. The value can range from 0 through 383.

*min-threshold*

Specifies minimum threshold in percentage. The value can range from 0 through 100 percent.

*max-threshold*

Specifies maximum threshold in percentage. The value can range from 0 though 100 percent.

*drop-probability*

Specifies drop probability in percentage. The value can range from 0 through 100 percent.

*priority-number*

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).

*traffic-class*

	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 RBridges on which the QoS policy must be activated.
<i>remove</i>	Specifies the RBridge-IDs to remove.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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	This API call was introduced.

## qos-cee

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## qos-cpu

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...



## qos-mls

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## qos-mpls

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## qos-mqc

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## radius-server

Configures, modifies, or retrieves RADIUS server configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/radius-server	RADIUS server.

### Parameters

#### *hostname*

Specifies the domain name or the IP address of this radius server.

#### *auth-port*

Specifies UDP authentication port. The value can range from 1 through 65535. The default value is 1812.

#### *use-vrf*

Specifies the VRF name.

#### *encryption-level*

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.

#### *key*

Specifies the secret shared with this server. The secret entered overrides the default secret.

#### *protocol*

Specifies the authentication protocol to be used. Supported protocols are **CHAP**, **PAP**, and **PEAP-MSCHAP**. The default is CHAP.

#### *retries*

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.

#### *timeout*

Specifies UDP authentication port. The value can range from 1 through 65535. The default value is 1812.

#### *auth-port*

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 example uses the GET option 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	This API call was introduced.
7.0.0	This API call was modified to 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

#### *rbridge-id*

Specifies the RBridge ID.

#### *ag*

Configures all AG-mode related commands. Refer to `rbridge-id/{rbridge-number}/ag` for information.

#### *arp*

Configures Address Resolution Protocol (ARP) parameters. Refer to `rbridge-id/{rbridge-number}/arp` for information.

#### *chassis*

Configures Chassis Virtual address. Refer to `rbridge-id/{rbridge-number}/chassis` for information.

#### *clock*

Configures system time zone. Refer to `rbridge-id/{rbridge-number}/clock` for information.

#### *fabric*

Configures fabric-related parameters. Refer to `rbridge-id/{rbridge-number}/fabric` for information.

#### *fcoe*

Configures FCoE configuration commands. Refer to `rbridge-id/{rbridge-number}/fcoe` for information.

#### *fcsp*

Configures FCSP configuration commands. Refer to `rbridge-id/{rbridge-number}/fcsp` for information.

#### *filter-change-update-delay*

Change filter change update delay timer. Refer to `rbridge-id/{rbridge-number}/filter-change-update-delay` for information.

#### *hardware-profile*

Configures Hardware Profile on a Switch. Refer to `rbridge-id/{rbridge-number}/hardware-profile` for information.

#### *interface*

Configures Interface parameters. Refer to `rbridge-id/{rbridge-number}/interface` for information.

#### *ip*

Configures Internet Protocol (IP) parameters. Refer to `rbridge-id/{rbridge-number}/ip` for information.

#### *ipv6*

Configure Internet Protocol version 6 (IPv6). Refer to `rbridge-id/{rbridge-number}/ipv6` for information.

#### *linecard*

Configures linecard for the specified slot. Refer to `rbridge-id/{rbridge-number}/linecard` for information.

#### *logical-chassis*

Configures logical chassis commands. Refer to `rbridge-id/{rbridge-number}/logical-chassis` for information.

#### *protocol*

- Configures protocol parameters. Refer to `rbridge-id/{rbridge-number}/protocol` for information.
- qos*  
Configures rbridge-level qos config parameters. Refer to `rbridge-id/{rbridge-number}/qos` for information.
- route-map*  
Configures a route-map instance. Refer to `rbridge-id/{rbridge-number}/route-map` for information.
- router*  
Configures router parameters. Refer to `rbridge-id/{rbridge-number}/router` for information.
- secpolicy*  
Configures security policy-related configuration. Refer to `rbridge-id/{rbridge-number}/secpolicy` for information.
- snmp-server*  
Configures SNMP server parameters. Refer to `rbridge-id/{rbridge-number}/snmp-server` for information.
- ssh*  
Configures SSH Server parameters. Refer to `rbridge-id/{rbridge-number}/ssh` for information.
- switch-attributes*  
Configures switch attributes configurations. Refer to `rbridge-id/{rbridge-number}/switch-attributes` for information.
- system-monitor*  
Configures FRU threshold and alert settings. Refer to `rbridge-id/{rbridge-number}/system-monitor` for information.
- telnet*  
Configures Telnet Server settings. Refer to `rbridge-id/{rbridge-number}/telnet` for information.
- threshold-monitor*  
Configures Class monitoring threshold and alert settings. Refer to `rbridge-id/{rbridge-number}/threshold-monitor` for information.
- vrf*  
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 example uses the GET option 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/routel%2Cdeny%2C1"></route-map>
  <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	This API call was introduced.
7.0.0	This 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}/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

#### *arp-ip-address*

Specifies the IP address of the ARP entry.

#### *mac-address-value*

Specifies 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 example uses the GET option 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>
```

### Response Body

None

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	This API call was introduced.

## 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

#### *enable*

Enables Access Gateway mode on a switch.

#### *reliability*

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.

#### *modes*

Specifies the mode name. Supported mode is **lb**.

#### *rename*

Specifies the Port group name.

#### *fnm*

Specifies the time-out value. The value can range from 30 to 3600 seconds. The default value is 120 seconds.

#### *pgid*

Specifies the numerical port group identifier. The values can range from 1 through 15. The value of the default port group is 0.

#### *agNPortNb*

Specifies the N\_Port number. N\_Ports are identified by rbridge-id/slot/N\_Port, such as 3/O/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 example uses the GET option 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>
```

The following is an example of the PATCH operation to modify the counter reliability value.

### URI

http://host:80/rest/config/running/rbridge-id/2/ag/counter/

### Request Body

```
</counter>
<reliability>25</reliability>
</counter>
```

## Response Body

None

The following is an example of the PUT operation to update the Fabric name monitoring time out value.

## URI

http://host:80/rest/config/running/rbridge-id/2/ag/timeout

## Request Body

```
<timeout>
  <fnm>60</fnm>
</timeout>
```

## Response Body

None

## History

Release version	History
5.0.0	This API call was introduced.
6.0.1	This API call was modified to include the parameter <i>enable</i> .

## 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

*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 example uses the GET option 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	This 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

*add*

Specifies the blade processor to add.

*remove*

Specifies the blade processor to remove.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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>
```

### History

Release version	History
6.0.0	This API call was introduced.
6.0.1a	This 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

*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 example uses the GET option 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	This 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

*timezone*

Specifies the local clock time zone.

### Usage Guidelines

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

### Examples

The following example uses the GET option to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/195/clock

#### Request Body

None

#### Response Body

```
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	This 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 key pair.

### Parameters

*label*

Specifies the name of the key pair.

*type*

Specifies the type of the key pair. Supported types are **rsa**, **ecdsa**, and **dsa**.

*modulus*

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.

*trustpoint*

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.

*keypair*

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 example uses the GET option 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>
  <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	This 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

*enable*

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 example uses the GET option 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	This 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

#### *instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters.

#### *target-community*

Specifies auto-generation of the import and export route-target community attributes.

#### *ignore-as*

Specifies that the autonomous system (AS) number be ignored.

#### *auto*

Enables auto-generation of a route distinguisher (RD) for an Ethernet Virtual Private Network (EVPN) instance.

#### *df-delay-timer*

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.

#### *duplicate-mac-timer-value*

Specifies the duplicate MAC detection timer interval in seconds. The value can range from 5 through 300. The default value is 5.

#### *max-count*

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.

#### *vni-number*

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 example uses the GET option 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/export/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-timer">
    <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/route-target">
        <import y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/vni/evpn-vni/1/route-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/route-target/export/1:1">
          <target-community>1:1</target-community>
        </export>
        <both y:self="/rest/config/running/rbridge-id/1/evpn-instance/evpn1/vni/evpn-vni/1/route-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	This 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

#### *load-balance*

Specifies the destination load-balancing. Supported configurations are

##### **dst-mac-vid**

Uses destination MAC address and VID-based load balancing.

##### **src-dst-ip**

Uses source and destination IP address-based load balancing.

##### **src-dst-ip-mac-vid**

Uses source and destination IP and MAC address and VID-based load balancing.

##### **src-dst-ip-mac-vid-port**

Uses source and destination IP, MAC address, VID and TCP/UDP port-based load balancing.

##### **src-dst-ip-port**

Uses source and destination IP and TCP/UDP portbased load balancing.

##### **src-dst-mac-vid**

Uses source and destination MAC address and VID-based load balancing.

##### **src-mac-vid**

Uses source MAC address and VID-based load balancing.

#### *load-balance-hash-swap*

Specifies the control value. The values can range from 0x0 through 0xFFFFFFFF.

#### *priority*

Specifies multicast routing information priority rbridge-id/{rbridge-number}/fabric/route.

#### *po-id*

Specifies the Port-channel ID.

#### *duplicateWWN*

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 example uses the GET option to retrieve the configuration details.

### 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	This API call was introduced.
6.0.1	This 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

*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 example uses the GET option 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	This 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

#### *group*

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 \*.

#### *hash*

Specifies the hash type used for authentication. Supported types are **sha1**, **md5**, and **all**.

#### *switch*

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 example uses the GET option 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>
```

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	This 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

*filter-delay-value*

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 example uses the GET option 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



## History

Release version	History
5.0.0	This 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

#### *routing\_profiletype*

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.

#### *TCAM profile type*

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 **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. Configuring **ipv4-acl** optimizes resources for IPv4 ACLs.

#### *routing\_profiletype*

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.

#### *maximum\_paths*

Specifies 8, 16, or 32 maximum paths.

*kap\_profiletype*

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.

*kap\_profilename*

Configures the KAP profile name.

*vlan\_profiletype*

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 example uses the GET option 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	This API call was introduced.
6.0.0	This API call was modified to include the parameter <i>vlan_profiletype</i> .
6.0.1	This API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/kap.
7.0.1	The API call was modified to include the <b>ipv4-acl</b> parameter.

## 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

#### *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 example uses the GET option 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
6.0.1	This 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).
<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

*aging-mode conversational*

Enables conversational ARP and conversational ND.

*aging-time conversational*

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 example uses the GET option 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	This 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

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255.

*shutdown*

Shuts down the interface.

*forwarding*

Specifies the name of the VRF option for the port.

*name*

Configures the VE interface number.

*ip-address*

Configures the IPv4 anycast address and mask.

*address*

Specifies the IP address.

*use-vrf*

Specifies the VRF name.

*mtu*

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.

*directed-broadcast*

Enables IP directed broadcasts on an interface.

*proxy-arp*

Enables Proxy-ARP on the interface.

*arp-aging-timeout*

Specifies how long an ARP entry stays in cache. The value can range from 0 through 240 minutes.

*last-member-query-interval*

Configures Last Member Query Interval value.

*query-interval*

Configures Query Interval value.

*immediate-leave*

Configures Immediate Leave Processing value.

*ipv6-address*

Specifies the IPv6 address of a neighbor in A:B:C:D format.

*managed-config-flag*

Sets managed config flag in router advertisement.

*other-config-flag*

Sets other config flag in router advertisement.

*ra-lifetime*

Specifies the time in seconds. The value can range from 0 through 9000 seconds. The default time is 1800 seconds.

*reachable-time*

Specifies the time in milliseconds. The value can range from 0 through 3600000 milliseconds. The default value is 0.

*retrans-timer*

Specifies the interval in milliseconds, at which NS messages are sent. The value can range from 0 through 4294967295 milliseconds. The default is 0.

*hoplimit*

Specifies the number of hops to be advertised. The value can range from 0 through 255. The default value is 64.

*ns-interval*

Specifies the number of seconds between neighbor solicitation messages. The value can range from 1 through 5 seconds. The default value is 1 second.

*proxy*

Enables proxy flag.

*max-interval*

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.

*min*

Specifies a minimum interval in seconds. The value can range from 0 through 1800 seconds. The default interval is 200 seconds.

*attempts*

Specifies the number of solicitations. The values can range from 0 through 10. The default value is 2.

*time*

Specifies the time in seconds. The value can range from 1 through 5 seconds. The default time is 1 second.

*expire*

Specifies the interval in minutes. The value can range from 1 through 240 minutes. The default interval is 240 minutes.

*receive*

Receives unicast ARP requests.

*shutdown*

Shuts down the selected interface.

*use-v2-checksum*

Enables v2 checksum computation method for VRRP.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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/authentication">
          <ipsec y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/ospf/authentication/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/authentication-key"/>
        <md5-authentication y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/md5-authentication">
          <key-id y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/md5-authentication/key-id"/>
        </md5-authentication>
        <database-filter y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/database-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/%22192.128.2.1/24%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-
authentication">
    <key-id y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/md5-authentication/
key-id"/>
  </md5-authentication>
  <database-filter y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/database-
filter"/>
  </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">
  <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.

### 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	This API call was introduced.
5.0.1a	This API call was modified to include the parameter <i>vrrp-group</i> .
6.0.1	This API call was modified to include the parameter <i>receive</i> under <i>vrrp-extended-group/arp/unicast-request</i> .
7.0.0	This 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-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

*local-ip-gw-id*

Specifies the gateway ID.

*interface-type*

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet, and Port-Channel.

*interface-name*

Specifies the interface name in [rbridge-id]/slot/port format or Port-channel interface number.

*priority*

Specifies the track priority. The value can range from 1 through 254.

*network-address*

Specifies the network address.

*next-hop-address*

Specifies the next-hop address.

*enable*

Enables IPv4 Fabric-Virtual-Gateway sessions in VCS.

*disable*

Disables Fabric-Virtual-Gateway.

*threshold-priority*

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

```
<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-gateway/
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-gateway/23/track">
    <interface y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gateway/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-gateway/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-gateway/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-gateway/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 1.1.1/24.

### 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	This API call was introduced.
6.0.0	This API call was call was not supported.
6.0.1	This 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

*local-ipv6-gw-id*

Specifies the gateway ID.

*ipv6-interface-type*

Specifies the interface type.

*ipv6-interface-name*

Specifies the interface name.

*priority*

Specifies the track priority. The value can range from 1 through 254.

*ipv6-network-address*

Specifies the network address.

*ipv6-next-hop-address*

Specifies the next-hop IP address.

*enable*

Enables IPv6 Fabric-Virtual-Gateway sessions.

*disable*

Disables IPv6 Fabric-Virtual-Gateway sessions.

*threshold-priority*

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-gateway/1/track">
    <interface y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gateway/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-gateway/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-gateway/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-
gateway/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-virtual-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-virtual-gateway/1/track/interface/  
FortyGigabitEthernet/221/0/55

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.1	This API call was introduced.
6.0.0	This API call was not supported.
6.0.1	This 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

*route*

Configures static route.

*extcommunity-list*

Sets BGP Extended Community filter.

*import*

Imports IPv4 routes.

*dhcp*

Configures Dynamic Host Configuration Protocol (DHCP).

*community-list*

Configures IP Community list.

*as-path*

Configures IP AS Path.

*prefix-list*

Configures IP address prefix list.

*router-id*

Specifies the IPv4 address that you want as the router ID.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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-gateway-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/195/ip/receive">
  <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rbridge-id/195/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"/>
</ip>
```

## History

Release version	History
5.0.0	This API call was introduced.
6.0.1a	This API call was modified to include the receive parameter.
7.0.0	This 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

*ip-anycast-gateway-mac*

Specifies the IPv4 anycast gateway MAC address. Possible values are:

**default-mac**

Sets the the IPv4 anycast gateway MAC address to 02e0.5200.0100.

*mac-address*

Sets 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 example uses the GET option 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	This 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*

Specifies the ACL name.

*seq-keyword*

Configures the sequence number of entry.

*instance*

Specifies the sequence number. The value can range from 1 through 65535.

*ip-action*

Sets the action to be performed as **deny** (disallow matching pattern), **permit** (allow matching pattern), or **seq** (sequence number of entry).

*ip-reg-expr*

Configures the regular expression string.

### Usage Guidelines

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

## Examples

The following example uses the GET option to retrieve the configuration details.

### URI

http://host:80/rest/config/running/rbridge-id/195/ip/as-path

### Request Body

None

### Response Body

```
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>myaspath</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	This 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*

Specifies the community list name. The value can range from 1 through 32 ASCII characters.

*seq-keyword*

Configures the sequence number of entry.

*instance*

Specifies the sequence number. The value can range from 1 through 65535.

*ip-action*

Sets the action to be performed as **deny** (disallow matching pattern), **permit** (allow matching pattern).

*ip-community-reg-expr*

Configures a ordered community list regular expression.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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	This 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

*option*

Enables DHCP relay information.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*extcommunity-list-num*

Specifies an Extended Community list Instance number.

*ext-community-action*

Specifies the action. Supported actions are **deny** and **permit**.

*ext-community-expr*

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 example uses the GET option 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

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

*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 example uses the GET option 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	This 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*

Specifies the prefix list name.

*seq-keyword*

Configures the sequence number of entry.

*action-ipp*

Sets the action to be performed as **deny** (disallow matching pattern) or **permit** (allow matching pattern).

*instance*

Specifies the sequence number.

*iprefix-ipp*

Specifies the IPv4 prefix.

*le*

Specifies the maximum IP prefix length.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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	This 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

*ip-access-list*

Specifies IP access list name.

*ip-direction*

Specifies ingress direction.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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>
        <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	This API call was introduced.
6.0.1	This API call was modified to include the new URI <code>&lt;base_URI&gt;/config/running/rbridge-id/{rbridge-number}/ip/route/static/bfd</code> .



## 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/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

*protocol*

Configures protocol parameters.

*prefix-list*

Configures IPv6 address prefix list parameters.

*route*

Configures IPv6 unicast static route parameters.

*import*

Configures imported IPv6 routes.

*nd*

Configures Neighbor Discovery commands.

*router*

Configures IPv6 router parameters.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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-rrrp3" 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-rrrp" 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	This API call was introduced.
6.0.1a	This API call was modified to include the new URI: <base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/receive.
7.0.0	This 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

*ipv6-anycast-gateway-mac*

Specifies the IPv6 anycast gateway MAC address. Possible configurations are:

**default-mac**

Set sthe the IPv6 anycast gateway MAC address to 02e0.5200.0200.

*mac-address*

Sets 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 example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*time*

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 example uses the GET option 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>
```

### 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	This 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*

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 (-).

#### *seq-keyword*

Specifies the "seq" keyword.

#### *instance*

Specifies an IPv6 prefix list sequence number.

#### *action-ipp*

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

#### *ipv6-prefix-ipp*

Configures IPv6 prefix.

#### *le*

If you specify only le le-value, then the range is from le-value to the prefix length parameter.

#### *ge*

If you specify only ge ge-value, then the range is from ge-value to the prefix length parameter.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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>
  <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	This 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

*vrrp*

Enables IPv6 VRRPv3.

*vrrp-extended*

Enables IPv6 VRRP-Ev3.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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">
  <vrrp>true</vrrp>
  <vrrp-extended>true</vrrp-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>
  <vrrp>true</vrrp>
  <vrrp-extended>true</vrrp-extended>
</protocol>
```

### 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	This 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

*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 example uses the GET option 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	This 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

#### *bfd-ipv6-static-route-dest*

Configures the destination IPv6 address.

#### *bfd-ipv6-static-route-src*

Configures the source IPv6 address.

#### *interval*

Configures the transmit interval time.

#### *min-rx*

Configures the receive interval time.

#### *multiplier*

Configures the multiplier value.

#### *static-route-dest*

Specifies the destination IPv6 prefix.

#### *static-route-next-hop*

Configures the next hop IP address.

#### *metric*

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.

#### *distance*

Specifies an administrative distance. The value can range from 1 through 255. The default value is 1.

#### *tag*

Specifies a tag value for the route. The value can range from 0 through 4294967295. The default value is 0.

#### *static-route-oif-type*

Specifies the static route interface type.

#### *InterfaceNumber*

Specifies the interface number.

#### *link-local-static-route-dest*

Configures the destination link local static route IP address.

#### *link-local-nexthop*

Configures the Link local next hop address.

#### *link-local-route-oif-type*

Configures the Link local route interface type.

*linklocalinterface*

Configures the Link local interface.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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/
%221700:54:1::/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/
%221700:54:1::/64%22%2Ctengigabitethernet%2C%2254/0/9%22">
    <static-route-dest>1700:54:1::/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-nh/%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/
%222001::/16%22%2Cvrf1%2C2001::">
    <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	This API call was introduced.
6.0.1	This API call was modified to include the BFD feature parameters under <i>static</i> .

## 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

*vrf*

Specifies the name of the VRF.

*area-id*

Specifies the area address.

*spi*

Specifies the Security Policy Index (SPI) value. The value can range from decimal numbers 512 through 4294967295.

*ah*

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.

*no-encrypt*

The 40-character key is not encrypted upon either its entry or its display.

*key*

Specifies the 40 hexadecimal character key.

*reference-bandwidth*

Specifies reference bandwidth in Mbps. The value can range from 1 through 4294967.

*database-overflow-interval*

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.

*always*

Configures to always advertise default route.

*metric*

Configures OSPF metric for default route.

*metric-type*

Configures OSPF metric type for default route.

*default-metric*

Specifies the OSPF routing protocol metric value. The value can range from 1 through 65535.

*default-passive-interface*

Marks all OSPF and OSPFv3 interfaces passive by default.



*route-type*

Specifies the route type. Supported types are:

**external**

Sets the distance for routes learned by redistribution from other routing domains.

**inter-area**

Sets the distance for all routes from one area to another area.

**intra-area**

Sets the distance for all routes within an area.

*distance-value*

Specifies the administrative distance value assigned to OSPF routes. The value can range from 1 through 255. The default value is 110.

*distribute-list-prefix-list-name*

Specifies the name of the prefix list.

*in*

Applies the prefix list to incoming routing updates on the specified interface.

*external-lsdb-limit*

Specifies the maximum size of the external LSDB. The c value can range from 1 through 250000. The default value is 250000.

*strict-lsa-checking*

Enables the OSPFv3 GR helper mode with strict link-state advertisement (LSA) checking.

*key-add-remove-interval*

Specifies the add-remove interval in seconds. The value can range from 0 through 14400. The default interval is 300.

*key-rollover-interval*

Specifies the key-rollover-interval in seconds. The value can range from 0 through 14400. The default value is 300.

*maximum-paths*

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.

*metric-type*

Specifies the metric type. Supported types are:

**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.

**type2**

Specifies the metric of a neighbor is the total cost from the redistributing routing to the rest of the world.

*nonstop-routing*

Enables nonstop-routing (NSR) for OSPFv3.

*lsa-group-pacing*

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.

*static-route-dest*

Sets the destination IP address.

*static-route-next-hop*

Sets the next hop ip address.

*metric*

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.

*distance*

Specifies an administrative distance.

*tag*

Specifies a tag value for the route.

*area-id*

Configures area address in dotted decimal or decimal format.

*no-summary*

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.

*log*

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.

## Examples

The following example uses the GET option 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-cost">
      <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/distance/
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/
distribute-list">
      <route-map y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distribute-
list/route-map"/>
      <prefix-list y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distribute-
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/graceful-
restart">
      <helper y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/graceful-restart/
helper">
        <strict-lsa-checking>true</strict-lsa-checking>
      </helper>
    </graceful-restart>
    <key-add-remove-interval>1000</key-add-remove-interval>
  </ospf>
</router>
```

```

    <key-rollover-interval>350</key-rollover-interval>
    <redistribute y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/
redistribute">
      <connected y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistribute/
connected">
        <metric-type>type1</metric-type>
      </connected>
      <static y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistribute/
static">
        <route-map>route</route-map>
        <metric>550</metric>
      </static>
      <bgp y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistribute/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/redistribute/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	This API call was introduced.
6.0.1	This API call was modified to include the parameter <i>log</i> under <i>ospf</i> and <i>include-stub</i> under <i>max-metric</i> .

## 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

#### *linecardName*

Configures the slot number.

#### *linecardType*

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 example uses the GET option 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	This 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

*principal-priority*

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 example uses the GET option 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 example uses the GET option to retrieve the configuration details.

### URI

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

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

#### *policy*

Specifies the policy name. Supported policies are:

##### **dfft\_aggressive\_policy**

Contains rules with very strict thresholds, for environments requiring a pristine fabric.

##### **dfft\_moderate\_policy**

Contains rules with thresholds values that lie between the aggressive and conservative policies.

##### **dfft\_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.

#### *actions*

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**.

#### *email*

Specifies the destination e-mail address for MAPS notifications. Only five or fewer addresses can be configured.

#### *policyname*

Specifies the name of the user-defined policy.

#### *logicalgroupname*

Specifies the name of the logical group.

#### *type*

Defines which type of port is assigned to the members of the group. Supported configurations are:

##### **sfp**

Sets the logical group as SFP ports.

**interface**

Sets the logical group as Ethernet ports.

*members*

Defines the members of the group. Members are either Ethernet interfaces or SFPs, separated by commas.

*hostip*

Specifies the destination relay for MAPS notifications.

*domainname*

Specifies the destination domain name for MAPS notifications.

*rulename*

Specifies the name for this user-defined rule.

*group*

Specifies the name of the logical group of ports to which the rule is applied.

*monitor*

Specifies the monitor name to which the rule is applied.

*interval*

Defines how often the rule is executed. Possible configurations are:

**none**

Sets no interval and the rule is always applied.

**min**

Sets the response to be triggered if the rule is broken once within the last 60 seconds.

**hour**

Sets the response to be triggered if the rule is broken once within the last 60 minutes.

**day**

Sets the response to be triggered if the rule is broken once within the last 24 hours.

*op*

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 ( = )

*value*

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 example uses the GET option 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">
    <policyname>policy1</policyname>
  </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	This API call was introduced.
7.0.0	This 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 <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

*instance-id*

Specifies the logical instance number.

*version-name*

Configures the OpenFlow version.

*controller-name*

Specifies the already-created name of an OpenFlow controller.

*passive-controller-flag*

Configures the Passive controller connection.

*passive-controller-ip-address*

Specifies the controller address.

*passive-controller-port*

Configures OpenFlow controller port number.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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 egress queuing.
<base_URI>/config/running/rbridge-id/{rbridge-number}/qos/rcv-queue	Configure QoS ingress queuing.

### Parameters

*limit*

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 example uses the GET option 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	This 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*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length.

#### *action-rm*

Specifies the action. Supported actions are **permit** and **deny**. Configuring **permit** allows a matching pattern. Configuring **deny** disallows a matching pattern.

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535.

#### *vrf*

Specifies the name of the VRF.

#### *prefix-list*

Specifies a prefix list. Values range from 1 through 32 ASCII characters.

#### *acl*

Configures the access list name.

#### *extcommunity-num*

Specifies the extended community list number. The value can range from 1 through 99.

#### *metric-rmm*

Specifies the route metric. The values can range from 0 through 4294967295.

#### *route-type-rmm*

Specifies the route type. Supported types are:

##### **internal**

Enables internal route type.

##### **type-1**

Enables OSPF external route type 1.

##### **type-2**

Enables OSPF external route type 2.

#### *tag-rmm*

Specifies the tag value. The value can range from 0 through 4294967295.

#### *as-path-access-list-name*

Specifies the name of an AS-path access list. The value can range from 1 through 32 ASCII characters.

#### *community-access-list-name*

Specifies the name of a BGP community access list. The value can range from 1 through 32 ASCII characters.

#### *bgp*

Matches BGP routes on protocol types.

*bgp-route-type*

Specifies the match type. Supported types are:

**external**

Matches EBGp routes.

**internal**

Matches IBGP routes.

**static-network**

Matches BGP static routes. This is applicable only for BGP outbound policy.

*continue*

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.

*continue-val*

Specifies the sequence ID. The value can range from 1 through 65535.

*next-hop*

Specifies the IP address.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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>
    <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>
      <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/ipv6">
    <global y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ipv6/
global">
      <next-global-hop y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/
ipv6/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/ipv6/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/195/route-map

## Request Body

```

<route-map>
  <name>ROUТЕMAP1</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	This API call was introduced.
6.0.1	This 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

*vrf*

Specifies the name of the VRF.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

#### *local-as*

Specifies the local ASN. The value can range from 1 through 4294967295.

#### *always-compare-med*

Enables the device to always compare the Multi-Exit Discriminators (MEDs).

#### *compare-med-empty-aspath*

Enables comparison of Multi-Exit Discriminators (MEDs) for internal routes.

#### *med-missing-as-worst*

Considers routes missing MED attributes as least desirable.

#### *as-path-ignore*

Disables the comparison of the autonomous system (AS) path lengths of otherwise equal paths.

#### *compare-routerid*

Enables comparison of device IDs.

#### *install-igp-cost*

Enables the device to use the IGP cost instead of the default BGP4 or BGP4+ Multi-Exit Discriminator (MED) value.

#### *id*

Configures Route-Reflector Cluster-ID.

#### *default-local-preference*

Specifies the local preference value. The value can range from 0 through 65535.

#### *ext-route-distance*

Specifies the EBGP distance. The value can range from 1 through 255.

#### *int-route-distance*

Specifies the IBGP distance. The value can range from 1 through 255.

#### *lcl-route-distance*

Specifies the local BGP4 and BGP4+ distance. The value can range from 1 through 255.

#### *as4-enable*

Enables 4-byte autonomous system number (ASN) capability.

#### *ebgp-btsh*

Enables BGP time to live (TTL) security hack protection (BTSH) for eBGP.

#### *num-as-in-path*

Configures the number of autonomous systems in the AS-PATH attribute.

*enforce-first-as*

Enforces the use of the first autonomous system (AS) path for external BGP (EBGP) routes.

*fast-external-falover*

Resets the session if a link to an EBGP peer goes down.

*keep-alive*

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.

*hold-time*

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.

*log-dampening-debug*

Logs dampening debug messages.

*identifier*

Specifies an autonomous system number (ASN). The value can range from 1 through 4294967295.

*peers*

Specifies the autonomous system (AS) numbers for BGP peers that will belong to the confederation. The value can range from 1 through 4294967295.

*holdover-interval*

Specifies the BFD holdover-time interval in seconds. The values can range from 1 through 30. The default value is 0.

*min-tx*

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.

*min-rx*

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.

*multiplier*

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.

*address*

Configures neighbor address.

*bgp-redistribute-internal*

Enables BGP4 route redistribution.

*redistribute-connected*

Redistributes directly connected routes.

*metric*

Configures metric for redistributed routes.

*redistribute-ospf*

Enables Open Shortest Path First (OSPF).

*redistribute-static*

Enables Static routes.

- ebgp*  
Specifies the number of EBGp paths. The value can range from 1 through 32. The default value is **all**.
- lbgp*  
Specifies the number of IBGP paths for load sharing. The value can range from 1 through 32. The default value is **all**.
- use-load-sharing*  
Uses the maximum IP ECMP path value.
- always-propagate*  
Configures the device to reflect BGP routes that are not installed in the RTM.
- default-information-originate*  
Sets the device to originate and advertise a default BGP4 or BGP4+ route.
- activate*  
Allows exchange of route in the current family mode.
- enable-peer-as-check*  
Disables routes advertise between peers in same AS.
- rib-route-limit*  
Configures limit BGP rib count in routing table.
- half-time*  
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.
- reuse-value*  
Specifies the minimum penalty below which the route becomes usable again. The value can range from 1 through 20000. The default value is 750.
- start-suppress-time*  
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.
- max-suppress-time*  
Specifies the maximum number of minutes a route can be suppressed by the device. The default value is 40.
- default-metric*  
Specifies the metric value. The value can range from 0 through 4294967295. The default value is 1.
- update-time*  
Configures IGP route update interval.
- metric*  
Configures metric for redistributed routes.
- route-map*  
Route map reference.
- bgp-redistribute-internal*  
Allows redistribution of IBGP routes into IGP.
- route-map*  
Specifies the route map name.
- aggregate-ip-prefix*  
Specifies the IPv4 address.

*network-ipv6-address*

Specifies the IPv6 address.

*advertise-map*

Specifies a route map to be consulted.

*as-set*

Sets the device to aggregate AS-path information.

*attribute-map*

Specifies a route map to be consulted.

*summary-only*

Prevents the device from advertising more-specific routes contained within the aggregate route.

*suppress-map*

Specifies a route map to be consulted.

*ibgp*

Configures the IBGP distance.

*multi-as*

Enables load sharing of paths from different neighboring autonomous systems.

*network-ipv4-address*

Configures the IP address.

*weight*

Configures the weight to be added to routes in this network.

*backdoor*

Changes administrative distance of the route to this network from the EBGP administrative distance.

*allowas-in*

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.

*static-network-address*

Configures the static network address.

*evpn*

Configures a routing session using Layer 2 Virtual Private Network (L2VPN) Ethernet Virtual Private Network (EVPN) endpoint provisioning address information.

*auto-shutdown-new-neighbors*

Automatically shuts down new neighbors.

*activate*

Allows exchange of routes in the current family mode.

*additional-paths*

Enables the advertisement of additional paths for BGP neighbors. Possible configurations are:

**receive**

Enables the BGP to receive additional paths from BGP neighbors.

**send**

Enable the BGP to send additional paths to BGP neighbors.

*client-to-client-reflection*

Enables routes from one Route Reflector Client to other clients by the host device on which it is configured.

*advertise*

Applies filters for the advertisement of additional paths for BGP neighbors. Possible configurations are:

**all**

Advertises all BGP additional paths with a unique next hop.

**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.

*all*

Configures a route reflector (RR) to accept all route targets (RTs).

*purge-time*

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.

*restart-time*

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.

*stale-routes-time*

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.

*route-reflector-client*

Enables a neighbor to be a route-reflector client.

*next-hop-unchanged*

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 example uses the GET option 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">
    <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/122/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>
</bgp>
```

```

</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/ipv4">
    <unicast y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv4/
unicast">
      <bgp- redistribute-internal>true</bgp- redistribute-internal>
      <redistribute y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/
ipv4/unicast/redistribute">
        <connected y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv4/
unicast/redistribute/connected">
          <redistribute-connected>true</redistribute-connected>
          <metric>23</metric>
          <route-map>route1</route-map>
        </connected>
        <ospf y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv4/
unicast/redistribute/ospf">
          <redistribute-ospf>true</redistribute-ospf>
          <match y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv4/
unicast/redistribute/ospf/match"/>
            <metric>26</metric>
          </ospf>
          <static y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv4/
unicast/redistribute/static">
            <redistribute-static>true</redistribute-static>
            <metric>30</metric>
          </static>
        </redistribute>
      </unicast>
    </ipv4>
  </address-family>
</address-family>

```



```

    <route-map>rou1</route-map>
  </static>
</redistribute>
<aggregate-address y:self="/rest/config/running/rbridge-id/54/router/bgp/default/address-family/
ipv4/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/ipv4/
unicast/neighbor/INTERNAL">
  <address>INTERNAL</address>
</neighbor>
<neighbor y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv4/
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/unicast/neighbor">
  <af-ipv4-neighbor-address y:self="/rest/config/running/rbridge-id/122/router/bgp/address-
family/ipv4/unicast/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/unicast/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/ipv4/
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/
ipv4/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/
ipv4/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/ipv4/
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/ipv4/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>
  </dampening>
  <default-metric>1</default-metric>
  <table-map y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv4/unicast/table-map"/>
    <update-time>10</update-time>
    <graceful-restart y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv4/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/ipv6">
    <unicast y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv6/unicast">
      <bgp-redistribute-internal>true</bgp-redistribute-internal>
      <redistribute y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv6/unicast/redistribute">
        <connected y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv6/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/ipv6/unicast/redistribute/ospf">
          <redistribute-ospf>true</redistribute-ospf>
          <match y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv6/unicast/redistribute/ospf/match"/>
            <metric>34</metric>
          </ospf>
          <static y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv6/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/ipv6/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/ipv6/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/ipv6/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/ipv6/unicast/neighbor/vcs_2122">
      <address>vcs_2122</address>
    </neighbor>
    <neighbor y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv6/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/ipv6/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>
            <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-paths">
              </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/advertise">
                </advertise>
              </additional-paths>
              <activate>true</activate>
              <allowas-in>3</allowas-in>
              <enable-peer-as-check>true</enable-peer-as-check>
              <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/ipv6/unicast/maximum-paths">
              <ebgp>2</ebgp>
              <ibgp>2</ibgp>
            </maximum-paths>
          </neighbor>
        </af-ipv6-neighbor-address>
      </neighbor>
    </neighbor>
  </neighbor>
</network>

```

```

        <use-load-sharing>true</use-load-sharing>
    </maximum-paths>
    <multipath y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv6/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/ipv6/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/ipv6/unicast/table-map"/>
    <update-time>10</update-time>
    <graceful-restart y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ipv6/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/graceful-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/retain">
                <route-target y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn/evpn/retain/route-target">
                    <all>true</all>
                </route-target>
            </retain>
            <neighbor y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/l2vpn/evpn/neighbor">
                <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	This API call was introduced.
7.0.1	The API call was modified to include the parameters, activate and enable-peer-as-check under <b>rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor</b> .

## 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

#### *max-mcache*

Specifies the number of entries in the multicast cache. The value can range from 1 through 2048.

#### *hello-interval*

Specifies the hello interval. The value can range from 10 through 3600 seconds. The default interval is 30 seconds.

#### *nbr-timeout*

Specifies the interval value in seconds. The value can range from 35 through 12600 seconds. The default value is 105 seconds.

#### *inactivity-timer*

Specifies the entry inactivity timer interval. The value can range from 60 through 3600 seconds. The default interval is 180 seconds.

#### *message-interval*

Specifies the interval value in seconds. The value can range from 10 through 65535 seconds. The default interval is 60 seconds.

#### *reset-tracking-bit*

Resets the tracking bit to zero.

#### *spt-threshold*

Specifies the Shortest Path Tree (SPT) threshold. Supported configurations are:

##### **infinity**

Uses only the rendezvous point to send packets. Do not switch over to SPT.

##### *num*

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.

#### *rp-ip-addr*

Specifies the IP address of the RP router.

#### *prefix-list*

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 example uses the GET option to retrieve the 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	This API call was introduced.
7.0.0	This 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

*vrf*

Specifies the VRF name.

*database-overflow-interval*

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.

*vrf-lite-capability*

Disables the DN bit that is set when routes are redistributed from MPBGP to OSPF.

*always*

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.

*metric*

Configures metric for default route.

*metric-type*

Configures the metric type. Set Type 1 or Type 2.

*route-map*

Specifies the name of a route map.

*default-metric*

Specifies the OSPF routing protocol metric value. The value can range from 1 through 65535.

*external-lsdb-limit*

Specifies the maximum size of the external LSDB. The maximum allowed value is 14913080.

*all*

Logs all configurations.

*neighbor-addr*

Specifies the IPv4 address of the neighbor.

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format.

*nssa*

Specifies an NSSA area.

*default-information-originate*

Originates default-information.

*no-redistribution*



Stops sending redistributed LSA into NSSA area.

*translator-always*

Sets the NSSA translator role.

*translator-interval*

Sets NSSA translator stability interval.

*ref-bandwidth*

Specifies the reference bandwidth in Mbps. The value can range from 1 through 4294967.

*use-active-ports*

When set, any dynamic change in bandwidth immediately affects the cost of OSPF routes. This parameter enables cost calculation for currently active ports only.

*route-type*

Sets the route-type. Supported configurations are:

**external**

Sets the distance for routes learned by redistribution from other routing domains.

**inter-area**

Sets the distance for all routes from one area to another area.

**intra-area**

Sets the distance for all routes within an area.

*IN*

Applies filter for incoming routes.

*external-lsa-val*

Specifies the metric value. The value can range from 1 through 16777214 (0x00001 -0x00FFFFFFE). The default value is 16711680 (0x00FF0000).

*summary-lsa-val*

Specifies the summary metric value. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFFFE). The default value is 16711680 (0x00FF0000).

*ptp*

Advertises maximum metric in Router LSA for PTP links.

*stub*

Advertises maximum metric in Router LSA for stub links.

*transit*

Advertises maximum metric in Router LSA for transit links.

*sum-address*

Specifies the IP address for the summary route representing all the redistributed routes in dotted decimal format.

*sum-address-mask*

Specifies the IP mask for the summary route representing all the redistributed routes in dotted decimal format.

*lsa-group-pacing*

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.

*init-delay*

Specifies the initial SPF calculation delay. The values can range from 0 through 60000 milliseconds. The default value is 0 milliseconds.

*hold-time*

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.

*max-hold-time*

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.

*graceful-restart-enable*

Enables the OSPF Graceful Restart (GR) capability.

*helper-disable*

Disables the GR helper capability.

*restart-time*

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.

*maximum-paths*

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.

*time*

Sets the time (in seconds) for which the specified links in Router LSAs are advertised.

*external-lsa-val-onstartup*

Configures the external LSA value on startup.

*summary-lsa-val-onstartup*

Configures the summary LSA value on startup.

*nonstop-routing*

Enables nonstop-routing (NSR).

*bfd-enable*

Enables Bidirectional Forwarding Detection (BFD).

*holdover-interval*

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 example uses the GET option to retrieve the 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-information-originate">
    <always>true</always>
    <metric>23</metric>
    <metric-type>type1</metric-type>
    <route-map>route1</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>route1</route-map>
    </connected>
    <static y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute/static">
      <route-map>route1</route-map>
    </static>
    <bgp y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute/bgp">
      <route-map>route1</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>
    <nssa y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/area/1/nssa">
      <nssa-value>5</nssa-value>
      <default-information-metric y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/
area/1/nssa/default-information-metric">
        </default-information-metric>
      </default-information-metric>
      <default-information-originate>true</default-information-originate>
      <no-redistribution>true</no-redistribution>
      <translator-interval>10</translator-interval>
    </nssa>
  </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/prefix-list">
      <prefix-list>prefixlist1</prefix-list>
      <in>true</in>
    </prefix-list>
  </area>
</ospf>
```

```

</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/
reference-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/external">
  <route-type>external</route-type>
</distance>
<distance y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distance/inter-area">
  <route-type>inter-area</route-type>
</distance>
<distance y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distance/intra-area">
  <route-type>intra-area</route-type>
</distance>
<distributed-list y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distribute-list">
  <route-map y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distribute-list/
route-map">
    <route-map>routel</route-map>
    <in>true</in>
  </route-map>
</distributed-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/router-
lsa">
    <external-lsa y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/
router-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/
router-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/router-lsa/
link">
      <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/
10.1.0.0%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>
    </spf>
  </throttle>
</timers>

```

```

        <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/prefix-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/prefix-list

## Request Body

None

## Response Body

None

## History

Release version	History
5.0.0	This API call was introduced.
6.0.1	This 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	This API call was modified to include the new URI: <base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf/area/{area-id}/prefix-list.
7.0.1	The API call was modified to include these parameters: <b>nssa</b> , <b>default-information-originate</b> , <b>no-redistribution</b> , <b>translator-always</b> , and <b>translator-interval</b> .

## 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

*policy*

Specifies the policy name.

*member*

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 example uses the GET option 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	This 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

*local*

Specifies the engine ID.

*hostip*

Configures the host IP.

*username*

Specifies the name of the user that connects to the agent. The name can be between 1 and 16 characters long.

*udp-port*

Specifies the UDP port of the host. The value can range from 0 through 65535. The default UDP port number is 162.

*severity-level*

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**.

*three-tuple-if*

Configures whether the ifDescr and ifName objects that belong to the Interfaces Group MIB (IF-MIB) are represented in 2-tuple or 3-tuple format.

*enable*

Enables SNMP to display ifDesc and ifName in 3-tuple format.

### Usage Guidelines

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



## Examples

The following example uses the GET option 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>
  <three-tuple-if y:self="/rest/config/running/rbridge-id/1/snmp-server/three-tuple-if">
    <enable>true</enable>
  </three-tuple-if>
</snmp-server>
```

## History

Release version	History
5.0.0	This API call was introduced.
5.0.1a	This API call was modified to include the parameter <i>v3host</i> .
6.0.1	This API call was modified to include the parameter <i>use-vrf</i> .
7.0.0	This API call was modified to include the parameter <i>offline-if enable</i> .
7.0.1	The API call was modified to include these parameters <i>three-tuple-if</i> and <i>enable</i> .

## rbridge-id/{rbridge-number}/spanning-tree

Configures spanning-tree commands.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/spanning-tree	Configure flooding limits of IEEE BPDU.
<base_URI>/config/running/rbridge-id/{rbridge-number}/spanning-tree/ieee-bpdu	Deletes the flooding limits of IEEE BPDU configuration.

### Parameters

*ieee-bpdu*

Configure flooding limits of IEEE BPDU.

*limit-vlan-flood*

Limits flooding of IEEE BPDU within the same VLAN.

### Usage Guidelines

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

### Examples

The following example uses the GET option to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/{rbridge-number}/spanning-tree

#### Request Body

None

#### Response Body

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>2</rbridge-id>
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <ieee-bpdu>
      <limit-vlan-flood>true</limit-vlan-flood>
    </ieee-bpdu>
  </spanning-tree>
</rbridge-id>
```

The following is an example of the POST operation to configure the flooding limits of IEEE BPDU.

### URI

http://host:80/rest/config/running/rbridge-id/{rbridge-number}/spanning-tree/ieee-bpdu

### Request Body

```
<ieee-bpdu>
  <limit-vlan-flood>true</limit-vlan-flood>
</ieee-bpdu>
```

### Response Body

None

The following is an example of the DELETE operation to remove the flooding limits of IEEE BPDU configuration.

### URI

http://host:80/rest/config/running/rbridge-id/{rbridge-number}/spanning-tree/ieee-bpdu

### Request Body

None

### Response Body

None

## History

Release version	History
7.0.1	This API call was introduced.

## 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

#### *key-exchange*

Specifies the key-exchange algorithm.

#### *rekey-interval*

Specifies the value for the rekey interval. The value can range from 900 to 3600 seconds.

#### *shutdown*

Disables SSH service on the switch.

#### *protocol*

Configures the protocol type.

#### *cipher*

Specifies the name of the cipher.

#### *cipher*

Specifies the name of the cipher.

#### *mac*

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.

#### *standby*

Enables the SSH services on the standby MM.

#### *rsa*

Specifies the RSA algorithm type.

#### *ecdsa*

Specifies the ECDSA algorithm value.

#### *dsa*

Specifies the DSA algorithm value.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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-shal</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-shal-96</mac>
    <key-exchange>dh-group-14</key-exchange>
  </client>
</ssh>
```

## History

Release version	History
5.0.0	This API call was introduced.
5.0.1a	This API call was modified to include the parameters <i>cipher</i> , <i>standby</i> , and <i>client</i> .
6.0.0	This API call was modified to include the parameters <i>rsa</i> , <i>ecdsa</i> , and <i>dsa</i> .
6.0.1	This API call was modified to include the parameters <i>cipher</i> and <i>mac</i> under server and client.

## 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

#### *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 example uses the GET option to retrieve the 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	This 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

*maintenance*

Enables maintenance mode.

### Usage Guidelines

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

### Examples

The following example uses the GET option to retrieve the 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	This 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

#### *action*

Specifies the response type. Supported types are:

#### **all**

Specifies that e-mail and RASLog messaging are used.

#### **email**

Specifies that an e-mail message is sent.

#### **none**

Specifies that no message is sent.

#### **raslog**

Specifies RASLog messaging.

#### *state*

Specifies the hardware state to be monitored. Supported states are:

#### **all**

Specifies that all hardware states are monitored.

#### **faulty**

Specifies that hardware is monitored for faults.



**inserted**

Specifies that the insertion state of hardware is monitored.

**none**

Specifies that no hardware states are monitored.

**on**

Specifies that the hardware on/off state is monitored.

**removed**

Specifies that the removal of hardware is monitored.

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down.

*marginal-threshold*

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 example uses the GET option 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/threshold">
      <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	This 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

*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 example uses the GET option 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>
```

### History

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

## threshold-monitor

Configures, modifies, or retrieves class-monitoring threshold and alert setting.

### Resource URIs

URI	Description
<base_URI>/config/running/threshold-monitor	Configure class-monitoring threshold and alert setting.
<base_URI>/config/running/threshold-monitor/sfp	Monitor SFP class.
<base_URI>/config/running/threshold-monitor/security	Monitor security class.
<base_URI>/config/running/threshold-monitor/cpu	Configure setting for component: CPU
<base_URI>/config/running/threshold-monitor/memory	Configure setting for component: MEMORY.
<base_URI>/config/running/threshold-monitor/interface	Monitor interface class.

### Parameters

#### *actions*

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.

#### *limit*

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.

#### *poll*

Specifies the polling interval in seconds. The value can range from 0 through 3600. The default value is 120.

#### *retry*

Specifies the number of polling retries before desired action is taken. The value can range from 1 through 100. The default value is 3.

#### *high-limit*

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.

#### *limit*

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.

#### *low-limit*

Specifies a lower limit for memory usage as percentage of available memory. The default value is 40 percent.

#### *apply*

Applies configuration.

#### *pause*

Pauses monitoring of port statistics.

#### *policy\_name*

Only custom policy can be configured.

#### *type*

Configures the speed type Ethernet interfaces.

*area*

The possible area completions are **CRCAlignErrors** (Frames received with CRC and/or Align Errors), **IFG** (Number of times Inter Frame Gap was violated), **MissingTerminationCharacter** (Frames that terminated by anything other than the Terminate character), or **SymbolErrors** (Number of words received as unknown symbol).

*buffer*

Configures the buffer threshold value.

*high-threshold*

Configures the high threshold value.

*low-threshold*

Configures the low threshold value.

*timebase*

Configure timebase for monitoring.

*highthresh-action*

Sets a high threshold action.

*lowthresh-action*

Sets a low threshold action.

*area*

Sets the security area as **login-violation** (Security Area login violation) or **telnet-violation** (Security Area telnet violation).

*type*

Sets the sfp type as **1GLR** - SFP type 1GLR, **1GSR** - SFP type 1GSR, **1OGLR** - SFP type 1OGLR, **1OGSR** - SFP type 1OGSR, **1OGUSR** - SFP type 1OGUSR, **10OGSR** - SFP type 10OGSR, or **QSFP** - SFP type QSFP.

*area*

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 example uses the GET option to retrieve the configuration details.

### URI

http://host:80/rest/config/running/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/threshold-monitor">
  <sfp y:self="/rest/config/running/threshold-monitor/sfp">
    <apply>custom</apply>
    <pause>true</pause>
    <policy y:self="/rest/config/running/threshold-monitor/sfp/policy/custom">
      <policy_name>custom</policy_name>
      <area y:self="/rest/config/running/threshold-monitor/sfp/policy/custom/area/">
        <area y:self="/rest/config/running/threshold-monitor/sfp/policy/custom/area/1GLR%2CCurrent">
          <type>1GLR</type>
          <area>Current</area>
          <threshold y:self="/rest/config/running/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/threshold-monitor/sfp/policy/custom/area/1GLR%2CCurrent/
alert">
            <above y:self="/rest/config/running/threshold-monitor/sfp/policy/custom/area/1GLR%2CCurrent/
alert/above">
              <highthresh-action>email</highthresh-action>
            </above>
            <below y:self="/rest/config/running/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/threshold-monitor/security">
      <apply>custom</apply>
      <pause>true</pause>
      <policy y:self="/rest/config/running/threshold-monitor/security/policy/custom">
        <sec_policy_name>custom</sec_policy_name>
        <area y:self="/rest/config/running/threshold-monitor/security/policy/custom/area/">
          <area y:self="/rest/config/running/threshold-monitor/security/policy/custom/area/login-violation">
            <area>login-violation</area>
            <timebase>minute</timebase>
            <threshold y:self="/rest/config/running/threshold-monitor/security/policy/custom/area/login-
violation/threshold">
              <high-threshold>2</high-threshold>
              <low-threshold>1</low-threshold>
              <buffer>0</buffer>
            </threshold>
            <alert y:self="/rest/config/running/threshold-monitor/security/policy/custom/area/login-
violation/alert">
              <above y:self="/rest/config/running/threshold-monitor/security/policy/custom/area/login-
violation/alert/above">
                <highthresh-action>all</highthresh-action>
              </above>
            </alert>
          </area>
        </policy>
      </security>
    </threshold-monitor>
  </sfp>
</threshold-monitor>
```

```

        <below y:self="/rest/config/running/threshold-monitor/security/policy/custom/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/threshold-monitor/Cpu">
    <poll>125</poll>
    <retry>5</retry>
    <limit>50</limit>
</Cpu>
<Memory y:self="/rest/config/running/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/threshold-monitor/interface">
    <apply>custom</apply>
    <pause>true</pause>
    <policy y:self="/rest/config/running/threshold-monitor/interface/policy/custom">
        <policy_name>custom</policy_name>
        <area y:self="/rest/config/running/threshold-monitor/interface/policy/custom/area/">
        <area y:self="/rest/config/running/threshold-monitor/interface/policy/custom/area/Ethernet
%2CSymbolErrors">
            <type>Ethernet</type>
            <area>SymbolErrors</area>
            <threshold y:self="/rest/config/running/threshold-monitor/interface/policy/custom/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/threshold-monitor/interface/policy/custom/area/Ethernet
%2CSymbolErrors/alert">
                <above y:self="/rest/config/running/threshold-monitor/interface/policy/custom/area/Ethernet
%2CSymbolErrors/alert/above">
                    <highthresh-action>all</highthresh-action>
                    <lowthresh-action>email</lowthresh-action>
                </above>
                <below y:self="/rest/config/running/threshold-monitor/interface/policy/custom/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
16r1.00	This 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

*vrf-name*

Specifies the VRF name.

*rd*

Specifies the ASN number.

*arp-ip-address*

Specifies a valid IP address.

*mac-address-value*

Specifies a valid MAC address.

*interfacename*

Represents a valid, physical Ethernet subtype for all available Ethernet speeds.

*src-vrf*

Specifies the VRF instance from which to leak routes to the VRF you are configuring.

*map*

Specifies the name of route map to use for route-leaking match criteria. The value can range from 1 through 63 ASCII characters.

*max-route*

Specifies the maximum number of routes.

*static-route-dest*

Configures the destination IP address.

*static-route-next-hop*

Configures the next hop IP Address.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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/unicast">
        <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/unicast/ip">
          <route y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/unicast/ip/route">
            <static-route-nh y:self="/rest/config/running/rbridge-id/54/vrf/mgmt-vrf/address-family/ipv4/unicast/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/unicast/ip/import">
            <routes y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/unicast/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/unicast/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>
    <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/unicast">
        <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm" y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/unicast/ipv6">
          <route y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/unicast/ipv6/route"/>
            <import y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/unicast/ipv6/import"/>
          </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>
  </ip>
</vrf>
```

```
</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	This 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

#### *reserved-vlan-start*

Specifies the start of range for reserved VLANs. The value can range from 1 through 4090.

#### *reserved-vlan-end*

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 example uses the GET option 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>
```

## Response Body

None

## History

Release version	History
5.0.0	This 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

*alarm*

Configures RMON alarm.

*event*

Configures RMON event.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

#### *alarm-index*

Specifies the alarm index. The value can range from 1 through 65535.

#### *snmp-oid*

Specifies sampling object SNMP OID.

#### *alarm-interval*

Specifies alarm interval. The interval can range from 1 through 2147483648 seconds.

#### *alarm-sample*

Specifies alarm sample type. Supported types are **absolute** and **delta**.

#### *alarm-rising-threshold*

Specifies alarm rising threshold value. The value can range from 0 through 4294967295.

#### *alarm-rising-event-index*

Specifies event index for rising threshold. The value can range from 1 through 65535.

#### *alarm-falling-threshold*

Specifies alarm falling threshold value. The value can range from 0 through 4294967295.

#### *alarm-falling-event-index*

Specifies event index for falling threshold. The value can range from 1 through 65535.

#### *alarm-owner*

Specifies the owner identity.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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	This 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

#### *event-index*

Specifies event index. The value can range from 1 through 65535.

#### *description*

Specifies event description.

#### *log*

Logs the event.

#### *owner*

Specifies owner name.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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*

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 example uses the GET option 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	This 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

*enable*

Enables Fabric-Virtual-Gateway.

*gateway-mac-address*

Specifies MAC address in HHHH.HHHH.HHHH format.

*timer*

Specifies gratuitous ARP timer. The value can range from 0 through 360 seconds.

*accept-unicast-arp-request*

Enables accept unicast ARP request for anycast gateway.

### Usage Guidelines

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

## Examples

The following example uses the GET option to retrieve the 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/
gratuitous-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/
nd">
          <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
5.0.0	This API call was introduced.
6.0.0	The API call was not supported.
6.0.1	Support for this API call was reintroduced.

## brocade-rpf

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...



## service

Configures, modifies, or retrieves password encryption services.

### Resource URIs

URI	Description
<base_URI>/config/running/service	Password encryption services.

### Parameters

*password-encryption*

Encrypts all clear text passwords.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This API call was introduced.

## brocade-sec-services

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

#### *enable*

Enable sFlow globally.

#### *collector-ip-address*

Specifies the IP address of the sFlow collector.

#### *collector-port-number*

Specifies the port number used by the sFlow collector. The value can range from 1 through 65535.

#### *polling-interval*

Specifies polling interval value. The value can range from 1 through 65535. The default value is 20.

#### *sample-rate*

Specifies sampling rate value. The value can range from 2 through 16777215. The default value is 32768.

#### *source-ip*

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 example uses the GET option 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	This 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

#### *enable*

Enables sFlow.

#### *collector-ip-address*

Configures the IPv4 or IPv6 address of the sFlow collector.

#### *collector-port-number*

collector-port-number.

#### *polling-interval*

Configures the counter polling interval value.

#### *sample-rate*

Configures the sampling rate value in packets.

#### *source-ip*

Configures the source IP address to use.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*profile-name*

Specifies sFlow profile name.

*sampling-rate*

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 example uses the GET option 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	This 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

#### *context*

Configures context to various instant mapping.

#### *location*

Configures the location of the system.

#### *sys-descr*

Configures the description of the system.

#### *enable*

Enables or disables the traps.

#### *community*

Configures community strings and group name associated with the community.

#### *host*

Configures IP address, community string, version, port number used to send traps, and severity level.

#### *user*

Configures user name, group name, auth and priv attributes associated with SNMP user name.

#### *v3host*

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 example uses the GET option 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	This 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

*community*

Specifies the community string.

*ipv4-acl*

Specifies the IPv4 access-list name.

*ipv6-acl*

Specifies the IPv6 access-list name.

*groupname*

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 example uses the GET option 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</ipv6-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/"Secret C0de"">
  <community>"Secret C0de"</community>
  <groupname>group3</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/common">
  <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</ipv6-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 group name 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</ipv6-acl>
  <groupname>group4</groupname>
</community>
```

### Response Body

None

## History

Release version	History
5.0.0	This API call was introduced.
6.0.1a	The API call was modified to include the parameters <i>ipv4-ac/</i> and <i>ipv6-ac/</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

*context-name*

Specifies the context name.

*vrf-name*

Specifies the VRF name.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*trap-flag*

Enables traps.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*ip*

Specifies host IP address.

*community*

Specifies the community string associated with the host entry.

*udp-port*

Specifies the UDP port where SNMP traps will be received. The valid port IDs range from 0 through 65535. The default port is 162.

*severity-level*

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.

*version*

Selects version 1 or 2c traps to be sent to the specified trap host.

*use-vrf*

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 example uses the GET option 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>
</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	This 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

*community*

Specifies an SNMP community name.

*context*

Specifies an SNMP context.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

#### *username*

Specifies username associated with V3 notification type.

#### *groupname*

Specifies groupname associated with username.

#### *auth*

Specifies authorization protocol for username. Supported configurations are:

##### **md5**

Sets HMAC-MD5-96 as an authentication protocol and uses md5 message digest algorithm for digest computation.

##### **noauth**

Removes authentication.

##### **sha**

Sets HMAC-SHA-96 as an authentication protocol and uses secure hash algorithm sha for digest computation.

#### *auth-password*

Specifies authorization password associated with the username.

#### *noauth*

Removes authentication.

#### *priv*

Specifies privacy protocol for username.

#### *priv-password*

Specifies privacy password associated with username.

#### *nopriv*

Removes privacy.

#### *encrypted*

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 example uses the GET option 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	This 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

#### *hostip*

Specifies the IP address of the host. IPv4, IPv6, and DNS hosts are supported.

#### *engineid*

Sets the remote engine ID to receive informs on a remote host.

#### *severity-level*

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.

#### *use-vrf*

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 example uses the GET option 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	This 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

*autoupload*

Configures autoupload operation parameters.

*autoupload-param*

Configures autoupload parameters.

*support-param*

Configures copy support parameter.

*ffdc*

Enables or Disables FFDC file generation.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*enable*

Enables autoupload.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*hostip*

Specifies the IPv4 or IPv6 address of the remote host.

*username*

Specifies the user name to access the remote host.

*directory*

Specifies the file path.

*protocol*

Specifies the protocol used to access the remote server. Supported protocols are **scp**, **sftp**, and **ftp**.

*password*

Specifies the password to access the remote host.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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

## 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	This 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

*hostip*

Specifies IP address of the remote host.

*username*

Specifies the user name to access the remote host.

*directory*

Specifies the path to the directory.

*protocol*

Specifies the protocol used to access the remote server. Supported protocols are **ftp**, **scp**, and **sftp**.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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>l2</directory>
  <protocol>scp</protocol>
  <password>"XDVmJTJ/uRBkyWmSat7/og==\n"</password>
</support-param>
```

## History

Release version	History
5.0.0	This 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

*rbridge-id*

Specifies the RBridge ID.

*chassis-name*

Specifies the chassis name.

*host-name*

Specifies the host name.

### Usage Guidelines

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



## Examples

The following example uses the GET option 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	This API call was introduced.

## brocade-sysmgr

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## brocade-sysmon

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

*fru*

Configures FRU mail settings.

*interface*

Configures interface mail settings.

*relay*

Configures relay IP mail settings.

*security*

Configures security mail settings.

*sfp*

Configures SFP mail settings.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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	This API call was introduced.

## system-monitor-mail/interface

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

*email*

Specifies e-mail address for FRU alerts.

*enable*

Enables FRU e-mail alerts.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*email*

Specifies e-mail address for interface alerts.

*enable*

Enables interface e-mail alerts.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*email*

Specifies e-mail address for security alerts.

*enable*

Enables security e-mail alerts.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*email*

Specifies e-mail address for SFP alerts.

*enable*

Enables sfp e-mail alerts.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

#### *hostname*

Specifies the IP address or domain name of the TACACS+ server. IPv4 and IPv6 addresses are supported.

#### *use-vrf*

Specifies the VRF name.

#### *encryption-level*

Specifies the level of encryption of the key.

#### *key*

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.

#### *port*

Specifies the authentication port. Valid values range from 0 through 65535. The default is 49.

#### *protocol*

Specifies the authentication protocol. Options include CHAP and PAP. The default is CHAP.

#### *retries*

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.

#### *timeout*

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.

#### *source-ip*

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 example uses the GET option 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	This API call was introduced.
7.0.0	The API call was modified to include the parameter <i>use-vrf</i> .

## brocade-topology-group

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...



## username

Configures, modifies, or retrieves configuration of local users.

### Resource URIs

URI	Description
<base_URI>/config/running/username	Configuration of local users.

### Parameters

*name*

Specifies the user name.

*desc*

Specifies the account description.

**enable**

Enables or disables the user account. Configuring **true** enables the user account, default value is set to true. Configuring **false** disables user account.

*encryption-level*

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.

*expire*

Specifies the date until when the password will remain valid after being updated. The default value is set to "never".

*password*

Specifies the password of the user.

*role*

Specifies the role of the user.

*access-time*

Restricts the hours during the day that the user may be logged in. By default, users are granted 24 hour access. Time values are given in 24 hour format. For example, to restrict access to the daily work schedule, use access-time 0800 to 1800.

*end-time*

Specifies the end-time for a user's session.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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>
<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>
  <access-time>1700</access-time>
  <to>1800</to>
</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	This API call was introduced.
7.0.1	Added these parameters: access-time and end-time.

## VCS

Configures, modifies, or retrieves Virtual Cluster Switching configuration.

## Resource URIs

URI	Description
<base_URI>/config/running/vcs	Specifies the IP address in IPv4 format by means of a CIDR prefix (mask).
<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

### *address*

Specifies the IP address in IPv4 format by means of a CIDR prefix (mask).

### *Ve*

Specifies the VE interface number.

### *enable*

Enables virtual fabric.

## Usage Guidelines

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

## Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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/
interface">
          <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	This 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

*enable*

Enables virtual fabric.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*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 example uses the GET option 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	This 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

*classifier*

Configures VLAN classification commands.

*dot1q*

Configures dot1q parameters.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*ruleid*

Specifies the rule ID. The value can range from 1 through 256.

*address*

Specifies MAC address in HHHH.HHHH.HHHH format.

*proto-val*

Specifies the protocol to use for the VLAN classifier rule. Supported configurations are *hex\_addr*, **arp**, **ip**, and **ipv6**.

*encap*

Specifies to encapsulate the Ethernet frames sent for the VLAN classifier rule. Supported configurations are:

**ethv2**

Specifies to use the Ethernet version 2 encapsulated frames.

**nosnaplrc**

Specifies to use the Ethernet version 2 non-SNA frames.

**snaplrc**

Specifies to use the Ethernet version 2 with SNA frames.

*groupid*

Specifies VLAN classifier group ID. The value can range from 1 through 16.

*oper*

Specifies the operation. Supported operations are **add** and **delete**.

*rule-name*

Specifies VLAN classifier rule name.

### Usage Guidelines

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

## Examples

The following example uses the GET option 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

## History

Release version	History
5.0.0	This 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

*native*

Enables tagged behavior for native-VLANs.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This API call was introduced.

## brocade-vxlan-visibility

### Resource URIs

URI	Description

### Parameters

### Usage Guidelines

### Examples

The following example uses the GET option to retrieve the configuration details.

URI

Request Body

Response Body

### History

Release version	History
	This API call was introduced.
	This API call was modified to...

## 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

*defined-configuration*

Defines DB entries.

*enabled-configuration*

Enables DB entries.

### Usage Guidelines

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

### Examples

The following example uses the GET option 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	This 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

*cfg-name*

Specifies CFG name.

*zone-name*

Specifies the name of a zone to be added to the configuration or removed from the configuration.

**entry-name**

Specifies the name of the entry.

*alias-name*

Specifies alias name.

*default-zone-access*

Sets the default zone access to one of the following.

**allaccess**

Sets the default zone access mode to "All Access". Each device can access all other devices attached to the VCS Fabric.

**noaccess**

Sets the default zone access mode to "No Access". No device can access any other device in the VCS Fabric.

*cfg-action*

Specifies defined configuration action. Supported configurations are `cfg-clear`, `cfg-disable`, `cfg-none`, `cfg-save`, and `cfg-transaction-abort`.

*member-entry*

Configures the WWN of the device to be added to the zone alias.

*member-zone*

Configures 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 example uses the GET option 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/zone2">
      <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-entry/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-entry/10:00:00:00:00:00:00:01">
      <alias-entry-name>10:00:00:00:00:00:00:01</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

`http://host:80/rest/config/running/zoning/defined-configuration/alias/alias2`

### Request Body

None

### Response Body

None

## History

Release version	History
5.0.0	This 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

#### *cfg-name*

Specifies the name of the zone configuratio.

#### *default-zone-access*

Specifies the default zone access. Supported configurations are:

##### **allaccess**

Sets the default zone access mode to "All Access". Each device can access all other devices attached to the VCS Fabric.

##### **noaccess**

Sets the default zone access mode to "No Access". No device can access any other device in the VCS Fabric.

#### *cfg-action*

Defines configuration actions. Supported actions are *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 example uses the GET option 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>""/>
  <default-zone-access>allaccess</default-zone-access>
  <cfg-action>cfg-save</cfg-action>
</enabled-configuration>
```

## History

Release version	History
5.0.0	This API call was introduced.

# Operational APIs

---

## activate-status

Retrieves the firmware activation status.

### Resource URIs

URI	Description
<base_URI>/operational-state/activate-status	Retrieves the firmware activation status.

### Parameters

*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	This API call was introduced.

## activate-status

Copies configuration data to or from the system.

### Resource URIs

URI	Description
<base_URI>/operational-state/bna-config-cmd	Copy configuration data to or from the system.

### Parameters

*session-id*

This ID is used along with bna-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/bna-config-cmd

#### Request Body

```
<bna-config-cmd>
  <src>running-config</src>
  <dest>startup-config</dest>
</bna-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	This API call was introduced.

## bn-config-cmd-status

Retrieves the status of a previous configuration command.

### Resource URIs

URI	Description
<base_URI>/operational-state/bn-config-cmd-status	Retrieves the status of a previous configuration command.

### Parameters

*status*

Shows the status of API bn-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/bn-config-cmd-status

#### Request Body

```
<bn-config-cmd-status>
  <session-id>0</session-id>
</bn-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	This 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

*index*

Displays the index number.

*date-and-time-info*

Displays the date and time information.

*message*

Displays the status message.

*dad-last-state*

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>
  <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>
</output>
```

```

<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	This 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

*fcoe-intf-total-interfaces*

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	This 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

*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	This 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

*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	This API call was introduced.
6.0.1a	This 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

*fwdl-state*

Displays the firmware download state.

*number-of-entries*

Specifies the number of status entries.

*index*

Displays the sequence number for the message.

*blade-name*

Displays the name of the blade.

*message-id*

Displays the message identifier.

*date-and-time-info*

Displays the date and time of the message. The format is YYYY-MM-DD/HH:MM:SS.SSSS.

*message*

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	This 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

*ip-address*

Displays the IP address of the ARP entry.

*mac-address*

Displays the MAC address of the ARP entry.

*interface-type*

Displays the interface type.

*interface-name*

Displays the interface name.

*is-resolved*

Indicates whether the ARP entry is resolved or not.

*age*

Displays the age of the ARP entry.

*entry-type*

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	This 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

*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	This 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

*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	This 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

#### *interface-type*

Displays the interface type.

#### *interface-name*

Displays the interface name.

#### *port-role*

Displays the current role that the particular interface is playing. This is applicable only for physical interfaces.

#### *port-mode*

Displays the operational mode of the particular interface. This is applicable only for physical interfaces or port-channel interfaces.

#### *if-name*

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.

#### *if-state*

Displays the current operational state of this interface.

#### *line-protocol-state*

Displays the 'Line protocol' state of the interface.

#### *line-protocol-state-info*

Displays the reason for the current line protocol state of the interface.

#### *hardware-type*

Displays the type of the interface.

#### *current-hardware-address*

Displays the address of the interface at its protocol sub-layer.

#### *logical-hardware-address*

Displays the address of the interface at its protocol sub-layer.

#### *ifindex*

A unique value, greater than zero, for each interface.

#### *mtu*

Displays the IP MTU value of the interface.

#### *actual-line-speed*

Displays the actual line speed of this interface.

#### *configured-line-speed*

Displays the administratively configured line speed of the interface.

*line-duplex-state*

Displays the 'Line duplex state' of the interface.

*flow-control*

Displays the 'Flow control' for the interface.

*queuing-strategy*

Displays the 'Queuing strategy' for the interface.

*ifHCInOctets*

Displays the total number of octets received on the interface, including framing characters.

*ifHCInUcastPkt*

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.

*ifHCInMulticastPkts*

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.

*ifHCInBroadcastPkts*

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.

*ifHCInErrors*

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.

*ifHCOutOctets*

Displays the total number of octets transmitted out of the interface, including framing characters.

*ifHCOutUcastPkts*

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.

*ifHCOutMulticastPkts*

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.

*ifHCOutBroadcastPkt*

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.

*ifHCOutErrors*

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.

*ip-mtu*

Displays the IP MTU value of this interface.

*line-protocol-exception-info*

Displays the 'Exception information' of line protocol.

*media-type*

Displays the media type.

*wavelength*

Displays the wavelength of pluggable media.

*if-description*

Displays the textual string containing information about the interface.

*queuing-strategy*

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.

```
<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.

```
<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	This 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

*interface-name*

Displays the Interface value.

*interface-type*

Displays the type of the interface.

*mode*

Displays the mode of the port-channel.

*fcoe-port-enabled*

Displays the FCoE capability is enabled on the interface.

*ingress-filter-enabled*

Indicates if the 'Ingress filtering' is enabled for the interface.

*acceptable-frame-type*

Displays the switch-port ingress Frame admission policy - whether only tagged Frames are allowed or all.

*default-vlan*

Displays the 'default vlan' identifier value for this switch-port.

*vlanid*

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>
    </active-vlans>
  </switchport>
</output>
```

## History

Release version	History
5.0.0	This 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

*interface-type*

Displays the network interface name in a VCS environment in the format: [rbridge-id]/slot/port.

*interface-name*

Displays the Interface value.

*if-name*

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.

*if-state*

Displays the current operational state of the interface.

*line-protocol-state*

Displays the 'Line protocol' state of the interface.

*ip-address*

Displays the IP address for the management interface.

*ipv4*

Displays the IP address in dotted decimal/Mask (A.B.C.D/M).

*ipv4-type*

Indicates whether IP address is primary/secondary and corresponding Broadcast IP.

*broadcast*

Displays the broadcast IP Address.

*ip-mtu*

Displays the MTU type.

*vrf*

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>
    <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	This 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

*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	This 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

*xpath-string*

Displays the xpath string.

*last-config-update-time*

Indicates the time stamp of the last configuration change for xpath.

### 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	This 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

*local-interface-name*

Indicates the local interface display name.

*local-interface-ifindex*

Indicates the local interface Ifindex.

*local-interface-mac*

Indicates the local interface MAC address.

*remote-interface-name*

Indicates the remote interface display name.

*remote-interface-mac*

Indicates the remote interface MAC address.

*dead-interval*

Indicates the dead interval.

*remaining-life*

Indicates the remaining life period.

*remote-chassis-id*

Indicates the remote chassis ID.

*lldp-pdu-transmitted*

Displays the number of LLDP PDUs transmitted from the interface.

*lldp-pdu-received*

Displays the number of LLDP PDUs received by the interface.

*remote-system-name*

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	This 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

*interface-name*

Displays the interface name.

*interface-type*

Displays the interface type.

*policy-name*

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	This 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

*vlanid*

Displays the VLAN ID.

*mac-address*

Displays the MAC address.

*mac-type*

Displays the MAC type.

*mac-state*

Displays the MAC state.

*interface-type*

Displays the interface type.

*interface-name*

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	This API call was introduced.
6.0.0	This 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

*interface-type*

Displays the interface type.

*interface-name*

Displays the interface name.

*encoding*

Displays the type of encoding used to transmit the data on this interface.

*vendor-name*

Displays the vendor of the interface.

*vendor-oui*

Displays the vendor IEEE company ID.

*vendor-pn*

Displays the vendor part number.

*vendor-rev*

Displays the vendor revision level.

*distance*

Displays the SFP distance.

*media-form-factor*

Displays the media form factor.

*wavelength*

Displays the wavelength of pluggable media.

*serial-no*

Displays the serial number.

*temperature*

Displays the module temperature (degrees C).

*date-code*

Displays the vendor's manufacturing date code.

*voltage*

This indicates the supply voltage (Volts).

*current*

Displays the laser diode drive current (milliAmps).

*tx-power*

Displays the transmitted optical power (microWatts).

*rx-power*

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	This 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

*nameserver-portid*

Displays the list of all Nx\_Ports registered in the name server database of this managed device.

*nameserver-portname*

Displays the Port\_Name (WWN) of this Nx\_Port.

*nameserver-nodename*

Displays the Node\_Name (WWN) of this Nx\_Port.

*nameserver-cos*

Displays the Fibre Channel Class of service supported by the device.

*nameserver-scr*

Displays the state change notifications that the device has registered for.

*nameserver-fc4s*

Displays the Fibre Channel FC4 services supported by the device.

*nameserver-portsymb*

Displays the user-defined name of this port.

*nameserver-nodesymb*

Displays the user-defined name of the node of this port.

*nameserver-fabric-portname*

Displays the Fabric port name (WWN) of this port.

*nameserver-permanent-portname*

Displays the type and role of the device.

*nameserver-devicetype*

Displays the type and role of the device.

*nameserver-porttype*

Displays the Fibre Channel port type.

*nameserver-index*

Displays the Port index number.

*nameserver-sharearea*

Indicates whether or not the port utilizes the Brocade shared area method of Fibre channel addressing.

*nameserver-redirect*

Indicates whether or not the device is involved in Brocade frame redirection zoning.

*nameserver-xlatedomain*



Indicates whether or not the device enters the fabric via a translate domain.

*nameserver-connected-via-ag*

Indicates whether or not the device enters the fabric via access gateway.

*nameserver-ag-base-device*

Indicates whether or not the device is a base access gateway device.

*nameserver-real*

Indicates whether or not the device entered in the fabric via AG is a physical device.

*nameserver-cascaded*

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	This 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

*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	This API call was introduced.
6.0.0	This API call 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

*aggregator-id*

Displays the aggregator ID.

*aggregator-type*

Displays the aggregator type.

*isvlag*

Specifies if the aggregator is a vLAG.

*aggregator-mode*

Displays the aggregator mode.

*system-priority*

Displays the System Priority.

*actor-system-id*

Displays the actor system ID.

*partner-oper-priority*

Displays the partner operational priority.

*partner-system-id*

Displays the Partner system ID.

*admin-key*

Displays the Admin key.

*oper-key*

Displays the Operational key.

*partner-oper-key*

Displays the Partner Operational key.

*rx-link-count*

Displays the RX link counter.

*tx-link-count*

Displays the TX link counter.

*individual-agg*

Displays the individual aggregator.

*ready-agg*

Displays the ready aggregator.

*rbridge-id*

Displays the RBridge ID.

*interface-type*

Displays the interface type.

*interface-name*

Displays the interface name.

*actor-port*

Displays the actor port number.

*sync*

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	This 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

*interface-type*

Displays the interface type.

*interface-name*

Displays the interface name.

*actor-port*

Displays the actor port number.

*system-priority*

Displays the System Priority.

*actor-system-id*

Displays the Actor system ID.

*partner-oper-priority*

Displays the partner operational priority.

*partner-system-id*

Displays the Partner system ID.

*actor-priority*

Displays the Actor Priority.

*admin-key*

Displays the Admin key.

*oper-key*

Displays the Operational key.

*receive-machine-state*

Displays the state of the 'Receive Machine'.

*periodic-transmission-machine-state*

Displays the state of the 'Periodic Transmission machine'.

*mux-machine-state*

Displays the state of the 'Mux machine'.

*admin-state*

Displays the Admin state.

*oper-state*

Displays the Operational state.

*partner-oper-state*

Displays the Partner Operational state.

*partner-oper-port*

Displays the Partner Operational port.

*actor-chip-number*

Displays the actor chip number.

*actor-max-deskew*

Displays the actor maximum deskew.

*partner-chip-number*

Displays the actor chip number.

*partner-max-deskew*

Displays the partner maximum deskew.

*actor-brcd-state*

Displays the actor BRCD trunk state.

*partner-brcd-state*

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	This 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

*interface-type*

Displays the interface type.

*interface-name*

Displays the interface name.

*name*

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>
```

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.

```
<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>
```

### 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>
```

## History

Release version	History
5.0.0	This 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*

Displays the profile name.

*ppid*

Indicates the ID of the port-profile.

*is-active*

Indicates if this port-profile is activated or not.

*mac*

Indicates the MAC addresses associated with this port-profile.

*interface-type*

Displays the interface type.

*interface-name*

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	This 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

#### *stp-mode*

Displays the type of the Spanning Tree Protocol configured on the switch.

#### *priority*

Displays the Bridge priority.

#### *bridge-id*

Displays the Bridge ID.

#### *hello-time*

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).

#### *max-age*

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).

#### *forward-delay*

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).

#### *interface-type*

Displays the interface type.

#### *interface-name*

Displays the interface name.

#### *spanningtree-enabled*

Enables spanning tree.

#### *if-index*

Displays the interface index.

#### *interface-id*

Displays the interface ID.

#### *if-role*

Displays the interface role.

#### *if-state*

Displays the interface state.

#### *external-path-cost*

Designated external path cost.

#### *internal-path-cost*

	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.
<i>admin-edge</i>	Displays the admin edge.
<i>edge-delay</i>	Displays the edge delay.
<i>configured-root-guard</i>	Displays the configured root guard.
<i>oper-root-guard</i>	Displays the operational root guard.
<i>boundary-port</i>	Displays the ls boundary.
<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 spanning tree link type.
<i>rx-bpdu-count</i>	Displays the received BPDU count.
<i>tx-bpdu-count</i>	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	This 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

*cist-root-id*

Displays the CIST Root ID.

*cist-bridge-id*

Displays the CIST bridge ID.

*cist-reg-root-id*

Displays the CIST regional root ID.

*root-forward-delay*

Displays the CIST root forward delay.

*hello-time*

Displays the CIST root hello time.

*max-age*

Displays the CIST root maximum age.

*max-hops*

Displays the hops the BPDU will be valid.

*migrate-time*

Displays the migration time.

*interface-type*

Displays the interface type.

*interface-name*

Displays the interface name.

*spanningtree-enabled*

Displays if the spanning tree enabled.

*if-index*

Displays the interface index.

*interface-id*

Displays the interface ID.

*if-role*

Displays the interface role.

*if-state*

Displays the interface state.

*internal-path-cost*

Displays the designated internal path cost.

*external-path-cost*  
Displays the designated external path cost.

*configured-path-cost*  
Displays the configured path cost.

*designated-port-id*  
Displays the designated port ID.

*port-priority*  
Displays the port priority.

*designated-bridge-id*  
Displays the designated bridge ID.

*forward-transitions-count*  
Displays the number of forward transitions.

*port-hello-time*  
Displays the Port hello time.

*received-stp-type*  
Displays the received (rx) stp type.

*transmitted-stp-type*  
Displays the transmitted (tx) stp type.

*edge-port*  
Displays the Edge Port mode.

*auto-edge*  
Displays the Auto Edge.

*edge-delay*  
Displays the Edge delay.

*admin-edge*  
Displays the Admin Edge.

*boundary-port*  
Displays the Is boundary.

*configured-root-guard*  
Displays the configured root guard.

*oper-root-guard*  
Displays the operational root guard.

*oper-bpdu-guard*  
Displays the operational BPDU guard.

*oper-bpdu-filter*  
Displays the operational BPDU filter.

*link-type*  
Displays the point-to-point - enable rapid transition.

*rx-bpdu-count*  
Displays the received BPDU count.

*tx-bpdu-count*

Displays the transmitted BPDU count.

*instance-id*

Displays the instance ID of the last received spanning-tree instance.

*msti-root-id*

Displays the MSTI Root ID.

*msti-bridge-id*

Displays the MSTI bridge ID.

*msti-bridge-priority*

Displays the MSTI bridge priority.

*vlan-id*

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>
      <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	This 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

*rbridge-id*

Displays the RBridge ID.

*days*

Displays the number of days the managed node is up since its last re-initialization.

*hours*

Displays the number of hours the managed node is up since its last re-initialization.

*minutes*

Displays the number of minutes the managed node is up since its last re-initialization.

*seconds*

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	This API call was introduced.

## get-tunnel-info

Retrieves summary of one or more tunnels from the switch.

### Resource URIs

URI	Description
<base_URI>/rest/operational-state/get-tunnel-info	Retrieves summary of one or more tunnels from the switch.

### Parameters

#### **rbridge-id**

The RBridge ID from which the tunnel information to be retrieved.

#### **mode**

Filters by tunnel mode.

#### **src-ip**

Filters by tunnel source IP. Only IPv4 addresses are supported in this release.

#### **dest-ip**

Filters by tunnel destination IP. Only IPv4 addresses are supported in this release..

#### **config-src-type**

Filters by configuration source.

#### **vrf**

Filters by VRF.

#### **admin-state**

Filters by tunnel admin state.

#### **oper-state**

Filters by tunnel oper state.

### Usage Guidelines

Only POST operation is supported .





## get-tunnel-statistics

Retrieves tunnel statistics including the number of bytes and frames sent and received.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-tunnel-statistics	Retrieves tunnel statistics including the number of bytes and frames sent and received.

### Parameters

**id**

The RBridge ID from which the tunnel statistics to be retrieved.

**rx-bytes**

Number of bytes received.

**rx-frames**

Number of frames received.

**tx-bytes**

Number of bytes transmitted.

**tx-frames**

Number of frames transmitted.

### Usage Guidelines

Only POST operation is supported.

## Examples

### URI

http://host:80/rest/operational-state/get-tunnel-statistics

### Request Body

```
<get-tunnel-statistics></get-tunnel-statistics>
```

### Response Body

```
<tunnel-stat>
  <id>61441</id>
  <tx-frames>1172767043</tx-frames>
  <tx-bytes>729424986178</tx-bytes>
  <rx-frames>1179274463</rx-frames>
</tunnel-stat>
<tunnel-stat>
  <id>61442</id>
  <tx-frames>1006494851</tx-frames>
  <tx-bytes>626032403983</tx-bytes>
  <rx-frames>1341925569</rx-frames>
</tunnel-stat>
<tunnel-stat>
  <id>61443</id>
  <tx-frames>663784345</tx-frames>
  <tx-bytes>412878707764</tx-bytes>
  <rx-frames>724870337</rx-frames>
</tunnel-stat>
```

## History

Release version	History
7.0.1	This 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

*node-vcs-mode*

Displays the node's VCS mode.

*local-switch-wwn*

Displays the WWN of local switch.

*node-vcs-type*

Displays the VCS types.

*node-vcs-id*

Displays the VCS ID.

*principal-switch-wwn*

Displays the WWN of the principal switch.

*co-ordinator-wwn*

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	This 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

*vlan-id*

Displays the VLAN ID.

*vlan-type*

Displays the VLAN type.

*vlan-name*

Displays the administrative name of the VLAN.

*vlan-state*

Displays the operational state of the VLAN.

*interface-type*

Displays the interface type.

*interface-name*

Displays the interface name.

*tag*

Displays the state of the interface - untagged, tagged, or converged.

*classification-type*

Displays the type of classification.

*classification-value*

Displays the value of the VLAN classification.

*last-vlan-id*

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>
```

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.

```
<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>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>
  <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>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>
  <last-vlan-id>53</last-vlan-id>
  <has-more>>false</has-more>
</output>
```

## History

Release version	History
5.0.0	This API call was introduced.
6.0.0	This API was modified to include the 'has-more' functionality.

## 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

*mac*

Displays the MAC address in HH:HH:HH:HH:HH:HH format.

*datacenter*

Displays the name of the datacenter.

*dvpg-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-vmppolicy-macaddr

### Request Body

```
<get-vmppolicy-macaddr>
  <vcenter>VC6</vcenter>
</get-vmppolicy-macaddr>
```

### Response Body

```
<output xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vmppolicy-macaddr>
    <mac>00:21:5e:c6:0e:c8</mac>
    <datacenter>datacenter-4381</datacenter>
    <dvpg-nn>Management Network</dvpg-nn>
    <port-prof>auto_VC6_datacenter-4381_Management+Network</port-prof>
  </vmppolicy-macaddr>
  <vmppolicy-macaddr>
    <mac>00:50:56:aa:02:ee</mac>
    <datacenter>datacenter-4381</datacenter>
    <name>VM40</name>
    <dvpg-nn>pg3</dvpg-nn>
    <port-prof>auto_VC6_datacenter-4381_pg3</port-prof>
  </vmppolicy-macaddr>
  <vmppolicy-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>
  </vmppolicy-macaddr>
  <vmppolicy-macaddr>
    <mac>00:50:56:aa:3b:d7</mac>
    <datacenter>datacenter-4381</datacenter>
    <name>VM_Temp</name>
    <dvpg-nn>vlan-castor-19</dvpg-nn>
  </vmppolicy-macaddr>
  <vmppolicy-macaddr>
    <mac>00:50:56:b3:2d:ee</mac>
    <datacenter>datacenter-2</datacenter>
    <name>KVM_Hyperv_103_castor_castor-t</name>
  </vmppolicy-macaddr>
  <vmppolicy-macaddr>
    <mac>00:50:56:b3:43:74</mac>
    <datacenter>datacenter-2</datacenter>
    <name>KVM_Hyperv_105_castort_castor</name>
  </vmppolicy-macaddr>
  <vmppolicy-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>
  </vmppolicy-macaddr>
  <vmppolicy-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>
  </vmppolicy-macaddr>
</output>
```

## History

Release version	History
5.0.0	This 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*

Displays the port group name.

*datacenter*

Displays the datacenter name.

*dvs-nn*

Displays the distributed virtual switch.

*vlan*

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	This 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

<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>
    <pnics>vmnic4</pnics>
    <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>
    <pnics>vmnic5</pnics>
    <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>
    <pnics>vmnic8</pnics>
    <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>
    <pnics>vmnic9</pnics>
    <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	This 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*

Displays the host name.

*datacenter*

Displays the host datacenter.

*vmnic*

Displays the host NIC.

*mac*

Displays the vmnic MAC address in HH:HH:HH:HH:HH:HH format.

*vswitch*

Displays the regular or distributed virtual switch.

*interface-type*

Displays the interface type.

*interface-name*

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	This 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*

Displays the host name.

*datacenter*

Displays the host datacenter.

*vlan*

Displays the allowed VLANs.

*host-nn*

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	This API call was introduced.

## get-vnetwork-vm

Shows discovered VMs.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-vm	Shows discovered VMs.

### Parameters

*name*

Displays the host name.

*datacenter*

Displays the host datacenter.

*mac*

Displays the MAC address.

*host-nn*

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>
  <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>
</output>
```

```

</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	This 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*

Displays the virtual switch name.

*datacenter*

Displays the host datacenter.

*host*

Displays the host name.

*pnic*

Displays the host NIC.

*interface-type*

Displays the interface type.

*interface-name*

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>
    <pnict>vmnic0</pnict>
    <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>
    <pnict>vmnic0</pnict>
    <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>
    <pnict>vmnic1</pnict>
    <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>
    <pnict>vmnic4</pnict>
    <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>
    <pnict>vmnic5</pnict>
    <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>
    <pnict>vmnic6</pnict>
    <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>
    <pnict>vmnic7</pnict>
```

```

    <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>
  <pnid>vmnic8</pnid>
  <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	This 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

*session-id*

Displays the session ID given to client. Use in API l2traceroute-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	This 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

*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>
  <reason xmlns="urn:brocade.com:mgmt:brocade-trilloam">SUCCESS</reason>
</output>
```

## History

Release version	History
5.0.0	This 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

*rbridge-id*

Displays the RBridge ID.

*fwdl-status*

Displays the firmware download status.

*fwdl-msg*

Displays the firmware download message.

*fwdl-cmd-status*

Displays the firmware download command status.

*fwdl-cmd-msg*

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	This 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

*rbridge-id*

Displays the RBridge ID in the cluster.

*fwdl-state*

Displays the firmware download state.

*index*

Displays the index.

*message-id*

Displays the firmware download message ID.

*date-and-time-info*

Displays the firmware download date and time.

*message*

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>
```

```
</cluster-fwdl-entries>  
</output>
```

## History

Release version	History
5.0.0	This 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

*policyname*

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	This 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

*rulename*

Displays the MAPS rule name.

*groupname*

Displays the MAPS group name.

*monitor*

Displays the MAPS monitor name.

*op*

Displays the MAPS operator.

*value*

Displays the MAPS threshold value.

*action*

Displays the MAPS action value.

*timebase*

Displays the MAPS timebase value.

*policyname*

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>
    <policyname>dflt_conservative_policy</policyname>
  </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>
<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>
<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>
<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>
<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>
<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>
<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>
</rules>
</output>

```

## History

Release version	History
6.0.1	This API call was introduced.
7.0.0	This API call was renamed to <b>maps-get-default-rules</b> instead of <b>maps-get-rules</b> .

## no-vcs-rbridge-context

Disables VCS Fabric mode.

### Resource URIs

URI	Description
<base_URI>/operational-state/no-vcs-rbridge-context	Disables VCS Fabric mode.

### 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	This API call was introduced.



## redundancy

Displays system redundancy statistics.

### Resource URIs

URI	Description
<base_URI>/operational-state/redundancy	Displays system redundancy statistics.

### Parameters

*rd\_status*

Specifies the status Status: 0 - Success, 1 - Failed.

*rd\_mesg*

Displays the system redundancy statistics.

### 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	This API call was introduced.

## reload

Reloads the switch.

### Resource URIs

URI	Description
<base_URI>/operational-state/reload	Reloads the switch.

### 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	This 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

#### *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	This 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

*bare-metal-state*

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	This 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

*rbridge-id-out*

Displays the RBridge ID.

*current-time*

Displays the switch date and time.

*timezone*

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	This 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

#### *trunk-list-group*

Provides the trunk group number the interface belongs to. Trunk members of a trunk group have the same group number.

#### *trunk-list-src-port*

Displays the source port index of the trunk member.

#### *trunk-list-interface-type*

Displays the interface type.

#### *trunk-list-src-interface*

Displays the source port interface info.

#### *trunk-list-nbr-rbridge-id*

Displays the RBbridge id of the neighboring switch that connects to this trunk member port.

#### *trunk-list-nbr-port*

Displays neighbor port index of the trunk member.

#### *trunk-list-nbr-interface-type*

Displays the interface type.

#### *trunk-list-nbr-interface*

Displays the neighbor port interface info.

#### *trunk-list-nbr-wwn*

Displays WWN of the neighboring switch that connects to this trunk member port.

#### *trunk-list-is-primary*

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-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	This 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

*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	This 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

*switchid*

Displays the switch ID specifies the particular switch to fetch firmware version information.

*os-name*

Displays the name of the Firmware version. Example: NOS, FOS, and so on.

*os-version*

Displays the version of the Firmware.

*copy-right-info*

Displays the copyright information of the Firmware.

*build-time*

Displays the time information on the build of Firmware.

*firmware-full-version*

Displays the full version string of Firmware.

*control-processor-vendor*

Displays the information on the control processor.

*control-processor-chipset*

Displays the information on the control processor.

*slot-no*

Displays the slot number.

*node-instance-no*

Displays the instance number.

*Node-type*

Displays the node type.

*Is-active-cp*

Indicates whether the control processor is active or not.

*application-name*

Displays the name of the application.

*primary-version*

Indicates the primary version.

*secondary-version*

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-full-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-version>
        <secondary-version>5.0.0pkadu_nos5.0.0_pit_a_03_0518_041429</secondary-version>
      </firmware-version-info>
    </node-info>
  </show-firmware-version>
</output>
```

## History

Release version	History
5.0.0	This 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

*linkinfo-rbridgeid*

Displays the RBridge ID of the node in the fabric.

*linkinfo-domain-reachable*

Indicates whether the RBridge is reachable or not.

*linkinfo-version*

Displays the FSPF version.

*linkinfo-wwn*

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	This 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

*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	This 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

*portsgroup-rbridgeid*

Displays the RBridge ID of the switch in the cluster.

*port-index*

Displays the port index of the RBridge.

*port-interface*

Displays the port index interface of the RBridge.

*port-type*

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	This 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

*rbridge-id*

Displays the RBridge ID.

*number-of-entries*

Displays the number of recent events to be fetched from the RASLOG entries.

*index*

Displays the sequence number for the message.

*message-id*

Displays the message identifier.

*date-and-time-info*

Displays the date and time of the message. The format is: YYYY-MM-DD/HH:MM:SS.SSSS (micro seconds).

*severity*

Displays the severity of the message. Valid values include: INFO, WARNING, ERROR, and CRITICAL.

*log-type*

Specifies if the message is a SYSTEM or DCE log.

*repeat-count*

Displays the number of times the particular event has occurred.

*message*

Displays the textual description of the event.

*message-flag*

Displays the type of the message.

*switch-or-chassis-name*

Displays the switch name or chassis name for the generator of the message..

### Usage Guidelines

Only POST operation is supported.

## Examples

### URI

http://host:80/rest/operational-state/show-raslog

### Request Body

```
<show-raslog></show-raslog>
```

The API can be used to retrieve some number of last entries by providing the following tags as in the request body below.

```
<show-raslog xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
  <number-of-latest-events>1</number-of-latest-events>
</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>
```

## History

Release version	History
5.0.0	This API call was introduced.



## 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

*rbridge-id*

Displays the RBridge ID.

*status*

Displays the status of recent support save.

*message*

Displays the textual description of status of recent support save.

*percentage-of-completion*

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	This 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

*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	This 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

*rbridge-id-out*

Displays the RBridge ID.

*switch-name*

Displays the name of the switch.

*switch-ip*

Displays the IP address of the switch.

*switch-state*

Displays the switch status based on components.

*switch-state-reason*

Displays the component reason for switch status.

*report-time*

Displays the switch report time stamp.

*component-name*

Displays the component name.

*component-state*

Displays the component status based on thresholds.

*port-area*

Displays the port identifier.

*port-name*

Displays the port name.

*port-state*

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>
    <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	This 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

*vcs-cluster-type-info*

Displays the VCS type.

*vcs-guid*

Displays the VCS cluster GUID.

*virtual-ip-address*

Displays the cluster virtual IP address.

*principal-switch-wwn*

Displays the VCS Cluster principal switch WWN.

*co-ordinator-wwn*

Displays the VCS cluster coordinator node WWN.

*total-nodes-in-cluster*

Displays the total number of nodes in cluster.

*nodes-disconnected-from-cluster*

Displays the number of nodes disconnected from cluster.

*cluster-generic-status*

Displays the cluster generic status.

*cluster-specific-status*

Displays the cluster specific status.

*node-num*

Displays the node number.

*node-serial-num*

Displays the serial number.

*node-condition*

Displays the node condition.

*node-status*

Displays the node status.

*node-vcs-mode*

Displays the node's VCS mode.

*node-vcs-id*

Displays the node VCS ID.

*node-rbridge-id*

Displays the node RBridge ID.

*node-is-principal*

Indicates if the node is management cluster principal.

*node-co-ordinator*

Indicates if the node is management cluster coordinator.

*node-switch-mac*

Displays the node switch MAC address.

*node-switch-wwn*

Displays the node switch WWN.

*switch-fcf-mac*

Displays the node FCF MAC address.

*node-internal-ip-address*

Displays the node internal IP address.

*node-public-ip-address*

Displays the node public IP address.

*node-public-ipv6-address*

Displays the node public IPv6 address.

*node-swbd-number*

Displays the node SWBD number.

*firmware-version*

Displays the node firmware version.

*node-switchname*

Displays the node switch name.

*node-fabric-state*

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-wnn>10:00:00:27:F8:54:4F:98</principal-switch-wnn>
  <co-ordinator-wnn>10:00:00:27:F8:54:4F:98</co-ordinator-wnn>
  <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-wnn>10:00:00:27:F8:54:4F:98</node-switch-wnn>
      <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	This 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

*cfg-name*

Displays the name of the zone configuration.

*zone-name*

Displays the name of a zone to be added to the configuration.

*entry-name*

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	This 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

*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	This 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

*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	This API call was introduced.