

Extreme Network OS REST API Guide, 7.3.0

Supporting Network OS 7.3.0

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Preface

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Document conventions

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

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.

Text formatting conventions

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

Format	Description
bold text	Identifies command names. Identifies keywords and operands. Identifies the names of GUI elements.
<i>italic text</i>	Identifies text to enter in the GUI. Identifies emphasis. Identifies variables.
Courier font	Identifies document titles. Identifies CLI output.

Format	Description
	Identifies command syntax examples.

Command syntax conventions

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

Convention	Description
bold text	Identifies command names, keywords, and command options.
<i>italic text</i>	Identifies a variable.
[]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, for example, passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <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.

Extreme resources

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

White papers, data sheets, and the most recent versions of Extreme software and hardware manuals are available at www.extremenetworks.com. Product documentation for all supported releases is available to registered users at www.extremenetworks.com/support/documentation.

Document feedback

Quality is our first concern at Extreme, 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:

- Use our short online feedback form at <http://www.extremenetworks.com/documentation-feedback-pdf/>
- Email us at internalinfodev@extremenetworks.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.

Contacting Extreme Technical Support

As an Extreme customer, you can contact Extreme Technical Support using one of the following methods: 24x7 online or by telephone. OEM customers should contact their OEM/solution provider.

If you require assistance, contact Extreme Networks using one of the following methods:

- [GTAC \(Global Technical Assistance Center\)](#) for immediate support
 - Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact.
 - Email: support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- [GTAC Knowledge](#) - Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- [The Hub](#) - A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- [Support Portal](#) - Manage cases, downloads, service contracts, product licensing, and training and certifications.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

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 devices but not to others, this guide identifies exactly which devices are supported and which are not.

Although many different software and hardware configurations are tested and supported by Extreme Networks, 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:

- ExtremeSwitching VDX 2746
- ExtremeSwitching VDX 6740
 - ExtremeSwitching VDX 6740-48
 - ExtremeSwitching VDX 6740-64
- ExtremeSwitching VDX 6740T
 - ExtremeSwitching VDX 6740T-48
 - ExtremeSwitching VDX 6740T-64
 - ExtremeSwitching VDX 6740T-1G
- ExtremeSwitching VDX 6940-36Q
- ExtremeSwitching VDX 6940-144S
- ExtremeSwitching VDX 8770
 - ExtremeSwitching VDX 8770-4
 - ExtremeSwitching 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 7.3.0.

On October 30, 2017, Extreme Networks, Inc. acquired the data center networking business from Brocade Communications Systems, Inc. This document has been updated to remove or replace references to Brocade Communications, Inc. with Extreme Networks, Inc., as appropriate.

Overview of the Network OS REST API

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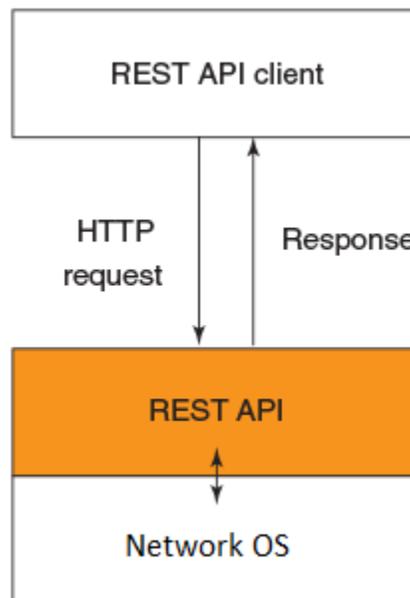
REST API

REST web service is the northbound interface to the OS platform, used to manage the nodes across the cluster.

REST web service supports all Create, Read, Update, and Delete (CRUD) operations on the configuration data and supports the YANG-RPC commands.

REST web service leverages HTTP and HTTPS, 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



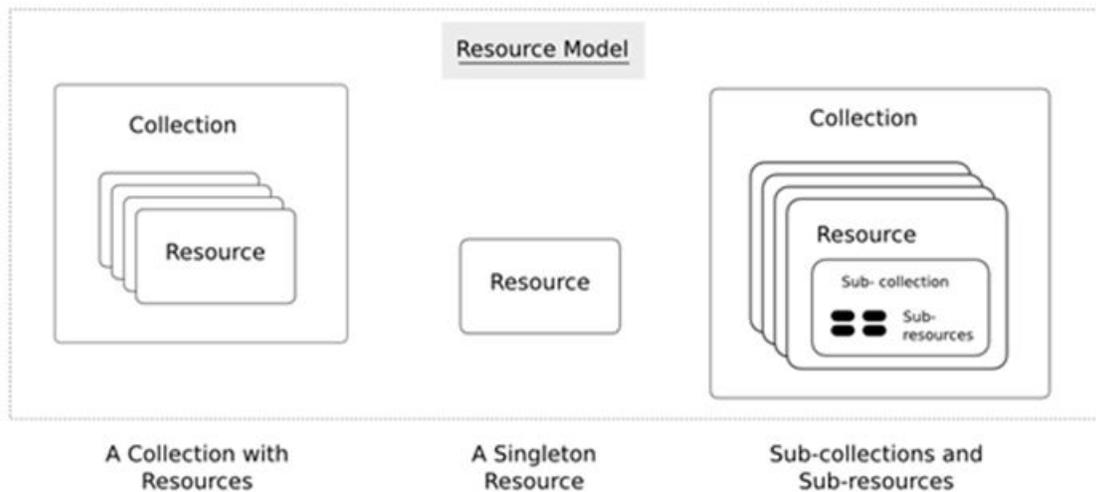
Resources

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, YANG-RPC Operations resource, and Operational-state are the 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"; 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/running) 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.

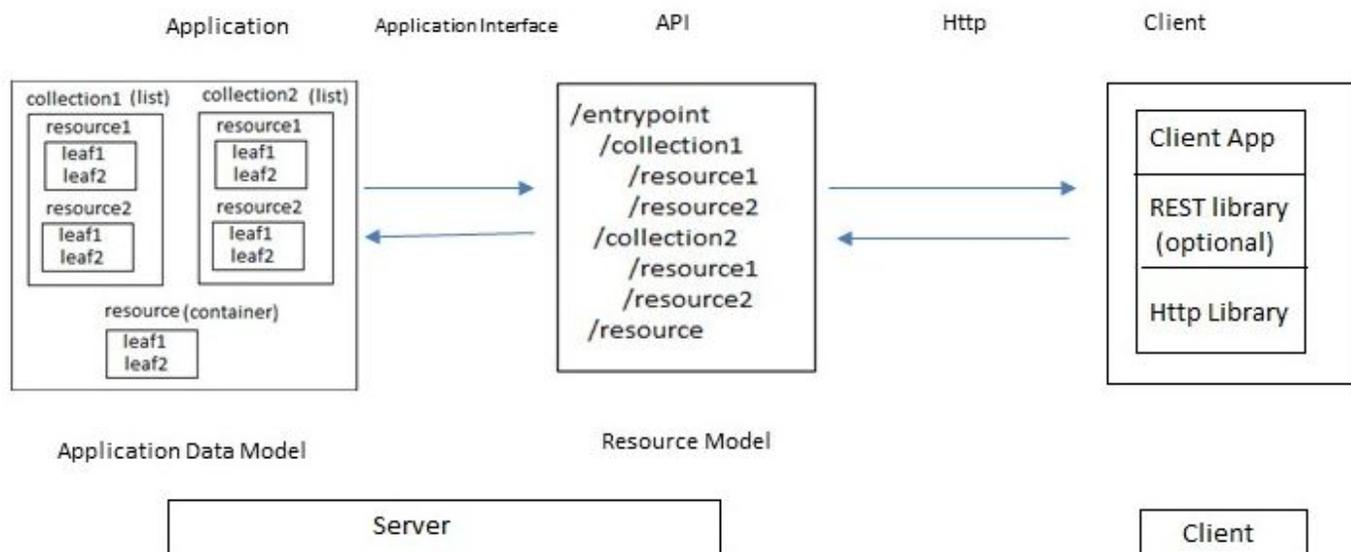
Relationship of YANG and resource data models

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 and HTTPS.

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, and 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/{key1},{key2}/path3/...).

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

- rest - The entry point
- config - Represents the configuration datastore resource
- running- Represents the running configuration datastore
- interface - Represents all interfaces present in the running configuration
- tengigabitethernet - Represents all the tengigabitethernet interfaces present in the running configuration

Similarly, the URI "/rest/config/running/interface/Port-channel/101" identifies the interface resource containing the Port-channel name101.

URI encoding

- A key that contains a forward slash (/) must be contained within a pair of double quotes(""). The double quotes character is encoded as %22. For example, a value of 1/1 for {interface-name} is represented in a URI as "1/1", which is encoded as %221/1%22.
- The delimiter between adjacent keywords in URIs is a Comma (.). This is encoded as %2C.

Base URI

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

NOTE

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

Top-level URIs

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

- `http://<Base URI>/config/running` - To access the running configuration resources.
- `http://<Base URI>/operational-state` - To access the YANG-RPC operation resources.
- `http://<Base URI>/operational-state/<media-type>` - To access the operational-state of the resources

Using the Extreme Network OS REST API

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Before you begin

Before you can use the Extreme Network OS REST API, obtain a username 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 device 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.

The following is an example of cURL request for the Authentication-token.

```
device# curl -v -X GET -u admin:password http://host:80/rest/config/running/vlan/10 -H "Accept: application/vnd.configuration.resource+xml" -k -v -H "Authentication-Token: d0xaUUp4cTx2dzlyfD9HaX09SC9yZEA/eF5yUkpXa0M="
```

If you use cURL, the response header is sent with a different authentication-token as the REST API is a stateless protocol. However, if you use a third-party tool or script and initiate a persistence session, you will receive the same Authentication-token under the session and response header.

There is no expiry for the authentication token or the user session. There is expiry for the HTTP session only, which is 180 seconds. The client will timeout if the server does not respond within 180 seconds. This also applies to the Authentication-token expiry.

For single persistent connection, there must be only one token. When the same token is reused, you can have maximum number of 100 requests in a persistent connection.

To log out from the device, you must delete the session created using the DELETE operation. The URI for deleting a session 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

The 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 with the Resource-Depth header and its value as 2 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>4</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/1.1 201 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/1.1 204 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/1.1 204 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 "access-list" 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 operational-state resources defined in the YANG model
application/vnd.operations.resource+xml	Represents the defined YANG-RPC operations.
application/vnd.base.resource+json	Represents the high-level base resources such as configuration datastore and operational state resource.

TABLE 1 Media types (continued)

Media type	Resources
application/vnd.configuration.resource+json	Represents resources defined for the configuration command derived from a YANG module.
application/vnd.operational-state.resource+json	Represents the operational-state resources defined in the YANG model
application/vnd.operational-state.resource+json	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	Supports all media types for this method
OPTIONS	Supports all media types for this method
GET	Supports all media types for this method
POST	application/vnd.configuration.resource+xml application/vnd.operations.resource+xml application/vnd.configuration.resource+json application/vnd.operations.resource+json
PUT	application/vnd.configuration.resource+xml application/vnd.configuration.resource+json
PATCH	application/vnd.configuration.resource+xml application/vnd.configuration.resource+json
DELETE	application/vnd.configuration.resource+xml application/vnd.configuration.resource+json

For more information about the media types, refer to the [Media types](#) on page 30 section.

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 Extreme REST API requests that return data support the XML and JASON 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 Default value:

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
- Date
- Location
- Server
- Status
- WWW-Authenticate
- Transfer-Encoding

NOTE

All Extreme REST API requests that return data support the XML and JSON format.

With-default header

The with-default header takes value all . This is used to get the running configuration of the configured along with default values of unconfigured resource. The following is an example of the with-default header.

Request Body

```
curl -v -X GET -u admin:password https://host/rest/config/running/router/mppls -H "Resource-Depth: 10" -k -H "With-Default: all"
```


Response body

```
<mpls xmlns="urn:extreme.com:mgmt:extreme-mpls" xmlns:y="http://extreme.com/ns/rest" y:self="/rest/config/running/router/mpls">
  <lsp-xc-traps y:self="/rest/config/running/router/mpls/lsp-xc-traps">
    <enable default="true" ></enable>
  </lsp-xc-traps>
  <lsp y:self="/rest/config/running/router/mpls/lsp/lsp1">
    <lsp-name>lsp1</lsp-name>
  </lsp>
</mpls>
```

HTTP status code and messages

Both success and error status are reported to the client by way 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 Extreme 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.

ACL configuration

ACLs filter traffic for the Extreme 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 MACL 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.

- 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.

- Establish a REST session with Network OS.
- Remove the exiting rule using the DELETE operation by calling the URI - <BASE_URI>/config/running/mac/access-list/standard/acl01/seq/100.
- 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 35.

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.

- Establish a REST session with Network OS.
- Remove the MAC ACL using the DELETE operation by calling the URI - <BASE_URI>/config/running/mac/access-list/standard/acl01

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 281 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 281 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 281 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.

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/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.

ocal-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.

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.

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%2C%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, 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/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.

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.

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.

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.

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> .

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.

GET URIs	Description
/rest/config/running/hardware	Hardware Management configuration
/rest/config/running/hardware/connector/(connectorName)	Configures a connector with the specified name
/rest/config/running/hardware/connector/(connectorName)/breakout	Configures a breakout connector
/rest/config/running/hardware/connector/(connectorName)/breakout/mode	Configures connector mode
/rest/config/running/hardware/port-group/(portGroupName)	Configures a port-group in a specified name
/rest/config/running/hardware/port-group/(portGroupName)/mode	Configures port-group mode

POST URIs	Payload	Description
/rest/config/running	<hardware />	Hardware management configuration
/rest/config/running/hardware	<connector><name>(connectorName)</name></connector>	Configures a connector
/rest/config/running/hardware/connector/(connectorName)	<breakout />	Configures a breakout connector
/rest/config/running/hardware	<port-group><name>(portGroupName)</name></port-group>	Configures a port-group

PATCH URIs	Payload	Description
/rest/config/running/hardware/connector/(connectorName)/breakout	<breakout><mode>(mode)</mode></breakout>	Configures a breakout connector
/rest/config/running/hardware/port-group/(portGroupName)	<port-group><mode>(mode)</mode></port-group>	Configures a port-group in a specified name

DELETE URIs	Payload	Description
/rest/config/running/hardware/connector/(connectorName)/breakout	<breakout><mode>(mode)</mode></breakout>	Configures a breakout connector

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

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

URI

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

Request Body

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

Response Body

None

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

URI

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

Request Body

None

Response Body

None

History

Release version	History
6.0.1	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.

vrp-group

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

private-vlan

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

transport-service

Sets tssid 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>interfacel</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"/>
  </TenGigabitEthernet>
</interface>
```

```

    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp" y:self="/rest/config/running/interface/
TenGigabitEthernet/%2254/0/2%22/lldp"/>
    <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 Extreme VDX 6740, VDX 6740T, and VDX 6940 platforms. The default value is 200 on Extreme 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 Extreme VDX 6740, VDX 6740T, and VDX 6940 platforms. The default value is 200 on Extreme 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

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

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.

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

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

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 Extreme 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/FortyGigabitEthernet/%22195/2/10%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/FortyGigabitEthernet/%22195/2/10%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/FortyGigabitEthernet/%22195/2/10%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}/dot1x/mac-auth-bypass

Enables the MAC-based authentication bypass on an interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/TenGigabitEthernet/%226/0/3%22/dot1x	Enables the MAC-based authentication bypass on an interface.

Parameters

name

Specifies the name of the interface.

mac-auth-bypass

Specifies MAC authentication bypass.

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/%226/0/3%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/TenGigabitEthernet/%229/0/25%22/dot1x">
  <authentication>true</authentication>
  <port-control>auto</port-control>
  <mac-auth-bypass>true</mac-auth-bypass>
  <timeout y:self=""/rest/config/running/interface/TenGigabitEthernet/%229/0/25%22/dot1x/timeout">
    </timeout>
</dot1x>
```

The following example uses the POST option to set the MAC authentication mechanism on an interface.

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%226/0/3%22/dot1x

Request Body

```
<mac-auth-bypass>true</mac-auth-bypass>
```

Response Body

None

The following example uses the DELETE option to delete the MAC authentication configuration from an interface.

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%226/0/3%22/dot1x/mac-auth-bypass

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

interface/{interface-type}/{interface-name}/dot1x/mac-auth-enable

Enables the MAC-based authentication on an interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/TenGigabitEthernet/%226/0/3%22/dot1x	Enables the MAC-based authentication on an interface.

Parameters

name

Specifies the name of the interface.

mac-auth-enable

Specifies the MAC-based authentication.

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/%226/0/3%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/TenGigabitEthernet/%229/0/25%22/dot1x">
  <mac-auth-enable>true</mac-auth-enable>
  <timeout y:self=""/rest/config/running/interface/TenGigabitEthernet/%229/0/25%22/dot1x/timeout">
  </timeout>
</dot1x>
```


The following example uses the PUT option to modify.

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%226/0/3%22/dot1x

Request Body

```
<dot1x><mac-auth-enable>true</mac-auth-enable></dot1x>
```

Response Body

None

The following example uses the DELETE option to delete the MAC authentication configuration.

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%226/0/3%22/dot1x/mac-auth-enable

Request Body

None

Response Body

None

History

Release version	History
7.1.0	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. NOTE GigabitEthernet supports neighbor discovery only.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/dport/mode	Configures a Layer 3 Ethernet interface to support static or dynamic diagnostic port (D_Port) testing.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/isl	Enables fabric ISL status
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/neighbor-discovery	Enables neighbor discovery at this port.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/trunk	Enables fabric trunk status.

Parameters

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/FortyGigabitEthernet/%22195/2/11%22/fabric/trunk

Request Body

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

Response Body

None

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

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

URI

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

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

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

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%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/%22195/1/7%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	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. Valid interface types: Ethernet, Port-channel, Ve. 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/TenGigabitEthernet/%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/%22195/1/7%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/%22195/1/7%22/ip/access-group/(ip-access-list)/(ip-direction)

Request Body

None

Response Body

None

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

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/%22195/1/7%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/%22195/1/7%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/%22195/1/7%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/%22195/1/7%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/%22195/1/7%22/ip/dhcp/relay

Request Body

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

Response Body

None

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

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

URI

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

Request Body

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

Response Body

None

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

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

URI

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

Species 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>
```

```
<pim xmlns="urn:brocade.com:mgmt:brocade-pim" y:self="/rest/config/running/interface/ethernet/
%22195/7%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/%22195/1/7%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/%22195/1/7%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 Policy-based Routing (PBR) configuration.

Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy	Configures PBR.

GET URIs	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. Supported interface types are: Ethernet and VE.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy/route-map/route-map-name	Enables PBR. Supported interface types are: Ethernet and VE.

PATCH URIs	Payload	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy/route-map	<route-map><route-map-name>{common-def:name-string63}</route-map-name></route-map>	Enables PBR on an Ethernet interface or VE.

PUT URIs	Payload	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy/route-map/route-map-name	<route-map-name>{common-def:name-string63}</route-map-name>	Enables PBR on an Ethernet interface or VE.

DELETE URIs
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy/route-map/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/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/%22195/1/7%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 route map.

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%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>l</ip-donor-interface-name>
</unnumbered>
```

interface/{interface-type}/{interface-name}/ip/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	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/%221/1/7%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, Ethernet, 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>

<address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config" y:self="/rest/config/running/interface/
ethernet/%22195/5%22/ipv6/address">
  <ipv6-address y:self="/rest/config/running/interface/ethernet/%221/5%23/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/%221/1/7%22/ipv6/address

Request Body

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

Response Body

None

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

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

URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%221/1/7%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/%221/1/7%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/%221/1/7%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/%221/1/7%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/%221/1/7%22/ip/icmpv6

Request Body

None

Response Body

None

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

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.

all

Suppresses response to RS in addition to not sending RAS.

max-interval

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.

min

Specifies the minimum interval in seconds. The interval can range from 0 through 1800. The default interval is set to 200 seconds.

attempts

Specifies the number of solicitations. The value can range from 0 through 10. By default, the value is set to 2.

time

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

prefix-ipv6-address

Specifies the IPv6 prefix in hexadecimal with 16-bit values between colons.

infinite

Enables infinite valid lifetime.

preferred-lifetime

Configures valid lifetime in seconds.

expire

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

broadcast-mac-trap

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

suppress-ra

Disables the sending of ICMPv6 Router Advertisement (RA) messages. Supported configurations are **all** and **mtu**. Configuring **all** disables the sending of all RA messages, including those sent in response to a solicitation. Configuring **mtu** disables the sending of MTUs in RA messages.

Usage Guidelines

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

Examples

The following 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>
```

interface/{interface-type}/{interface-name}/ipv6/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/%221/1/5%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/%22195/1/7%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

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, Ethernet, 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>

<ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/interface/ethernet/%22195/5%22/ipv6/ospf">
  <area>2.2.2.2</area>
  <passive>true</passive>
  <bfd y:self="/rest/config/running/interface/ethernet/%22195/5%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/ethernet/%22195/5%22/ipv6/ospf/authentication">
    <ipsec y:self="/rest/config/running/interface/ethernet/%22195/5%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>
</ospf>
```

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

```
<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, Ethernet, 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.

vrid

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/%221/1/7%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

http://host:80/rest/config/running/interface/Ethernet/%221/1%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>

<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list" y:self="/rest/config/running/interface/
Ethernet/%221/1%22/mac">
  <access-group y:self="/rest/config/running/interface/Ethernet/%221/1%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}/ip/pim/multinet/enable

Enables PIM multinet on a physical interface.

Resource URIs

URI	Description
<base_URI>/config/running/interface/FortyGigabitEthernet/%229/0/36%22/ip/pim	Enables multinet on a physical interface.

Parameters

name

Specifies the interface name.

rmultinet_enable

Enables multinet on the interface.

Usage Guidelines

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

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

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

URI

http://host:80/rest/config/running/interface/FortyGigabitEthernet/%229/0/36%22/ip/pim/

Request Body

None

Response Body

```
<pim xmlns="urn:brocade.com:mgmt:brocade-pim" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/interface/FortyGigabitEthernet/%229/0/36%22/ip/pim">
  <multinet y:self="/rest/config/running/interface/FortyGigabitEthernet/%229/0/36%22/ip/pim/multinet">
    <enable>true</enable>
  </multinet>
</pim>
```

The following example uses the PUT option to modify the multinet configuration.

URI

http://host:80/rest/config/running/interface/FortyGigabitEthernet/%229/0/36%22/ip/pim

Request Body

```
<pim><multinet><enable>true</enable></multinet></pim>
```

Response Body

None

The following example uses the DELETE option to delete the multinet configuration.

URI

http://host:80/rest/config/running/interface/FortyGigabitEthernet/%229/0/36%22/ip/pim/multinet

Request Body

None

Response Body

None

History

Release version	History
7.1.0	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>
```

interface/{interface-type}/{interface-name}/port-profile-port

History

Release version	History
5.0.0	This API call was introduced.

interface/{interface-type}/{interface-name}/protected-port

Configures a switchport as an uplink switch protected port.

Resource URIs

URI	Description
<base_URI>/config/running/uplink-switch/interface/tengigabitethernet/%2219/1/31%22/protected-port	Configures a switchport as an uplink switch protected port.

Parameters

name

Specifies the interface name.

protected-port-enable

Enables protected port.

Usage Guidelines

GET, 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/config/running/uplink-switch/interface/tengigabitethernet/%2219/1/31%22/protected-port

Request Body

None

Response Body

```
<protected-port xmlns="urn:brocade.com:mgmt:brocade-interface" xmlns:y="http://brocade.com/ns/rest"
  y:self="/rest/config/running/interface/TenGigabitEthernet/%2219/1/31%22/protected-port">
</protected-port>
```

History

Release version	History
7.2.0	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

interface/{interface-type}/{interface-name}/qos

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	<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon/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/service-policy

Request Body

None

Response Body

```
<service-policy xmlns="urn:brocade.com:mgmt:brocade-policer" xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/service-policy">
  <in>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

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 200000000.

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.

interface/{interface-type}/{interface-name}/snmp

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

GET URIs	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.

DELETE URIs
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport

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.

<i>accessvlan</i>	Specifies the VLAN ID.
<i>rspan-access-vlan</i>	Specifies the RSPAN VLAN ID to set as access VLAN.
<i>pvlan_all</i>	Allows all VLANs to Xmit/Rx through the Layer 2 interface.
<i>pvlan_none</i>	Allows no VLANs to Xmit/Rx through the Layer 2 interface.
<i>pvlan_add</i>	Adds a VLAN to Xmit/Rx through the Layer 2 interface.
<i>pvlan_except</i>	Allows all VLANs except VID to Xmit/Rx through Layer 2 interface.
<i>pvlan_remove</i>	Removes a VLAN that Xmit/Rx through the Layer 2 interface.
<i>pvlanNativevlan</i>	Specifies the VLAN interface number.
<i>pvlan-native-vlan-ctag-id</i>	Associates a Ctag as Private VLAN.
<i>host-pri-pvlan</i>	Specifies the VLAN interface number.
<i>host-sec-pvlan</i>	Specifies the host VLAN interface number.
<i>trunk-pri-pvlan</i>	Specifies the trunk primary VLAN ID.
<i>trunk-sec-pvlan</i>	Specifies the trunk secondary VLAN ID.
<i>promis-pri-pvlan</i>	Specifies the primary VLAN ID.
<i>oper</i>	Sets the operation to be performed as add (Adds Secondary VLAN IDs) or delete (Remove secondary VLAN IDs).
<i>promis-sec-pvlan-range</i>	Specifies the secondary VLAN identification.
<i>all</i>	Specifies all Dot1q VLANs to add.
<i>none</i>	Specifies 'no dot1q vlans'.
<i>add</i>	Specifies list of VLANs to be added.
<i>except</i>	Specifies exception list of VLANs.

interface/{interface-type}/{interface-name}/switchport

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/TenGigabitEthernet/%221/0/5%22

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>
```

interface/{interface-type}/{interface-name}/switchport

```
<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>
</association>
<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>true</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 an Ethernet 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.
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}/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}/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/%22102/5/1%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/%22102/5/1%22/vrrp-group/89%22/enable

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}/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/%221/0/5%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>
```

interface/{interface-type}/{interface-name}/vrf

The following is an example of the PUT operation to enable VRF forwarding.

URI

http://host:80/rest/config/running/interface/Ethernet/%221/1%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.
6.0.0	This API call was modified to include the parameter <i>drop-monitor-enable</i> under <i>drop-monitor</i> .

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
7.0.0	This API call was introduced.

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
7.0.0	This API call was introduced.

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

http://host:80/rest/config/running/interface/Vlan/100/ip/arp/inspection/filter

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/%2222001::1/64%22">
    <address>2001::1/64</address>
    <anycast>true</anycast>
  </ipv6-address>
</address>
```

interface/port-channel/{port-channel-number}/ipv6/address/ {ipv6-address}/anycast

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/%2222001:2::/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.

interface/vlan/{vlan-number}/ip/igmp/static-group

Configures the IGMP static group membership entries for a specific interface.

Resource URIs

URI	Description
<base/URL>/config/running/interface/vlan/10/ip/igmp/static-group	Configures the IGMP static group membership entries for a specific interface.

Parameters

interface

Specifies interface.

vlan

Specifies VLAN.

name

Specifies the VLAN name.

ip

Specifies IP version.

mcast-address

Specifies the multicast address.

value

Specifies the interface name.

source

Specifies the source IP address .

Usage Guidelines

Examples

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

URI

http://host:80/rest/config/running/interface/vlan/10/ip/igmp/static-group

Request Body

None

Response Body

None

History

Release version	History
7.2.0	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 mtu 9018 .

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>
<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/acl113/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 mtu 9018 .

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>
  </extended>
</access-list>
```

```

<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.

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.com:rest" y:baseURI="http://host:80/rest/config/running/ldap-server" 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.

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.

GET URIs	Description
<base_URI>/config/running/mac/access-list/standard/{name}/seq/{seq-id}/srchost	Displays source host for a standard MAC ACL.
<base_URI>/config/running/mac/access-list/standard/{name}/seq/{seq-id}/src-mac-addr-mask	Displays the source MAC address and the comparison mask for a standard MAC ACL.
<base_URI>/config/running/mac/access-list/standard/{name}/seq/{seq-id}/count	Displays statistics for the rule for a standard MAC ACL.
<base_URI>/config/running/mac/access-list/standard/{name}/seq/{seq-id}/log	Displays inbound logging for the rule for a standard MAC ACL.
<base_URI>/config/running/mac/access-list/standard/{name}/seq/{seq-id}/copy-sflow	Displays copy sflow status.
<base_URI>/config/{name}/seq/{seq-id}/dst	Displays the destination MAC address for a standard MAC ACL.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/dst-mac-addr-mask	Displays the source MAC address and the comparison mask for an extended MAC ACL.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/ethertype	Displays the ethertype for an extended MAC ACL.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/vlan	Displays the VLAN interface to which the ACL is bound.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/pcp	Displays Filters by PCP priority value.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/pcp-force	Displays pcp force status.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/drop-precedence-force	Displays whether trap behavior for control frames is overridden.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/count	Displays statistics for the rule for a standard MAC ACL.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/log	Displays inbound logging for the rule for a standard MAC ACL.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/mirror	Displays whether mirror is enabled. Supported for rules in ACLs applied on physical interfaces to inbound traffic.
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}/copy-sflow	Displays copy sflow status. Supported for incoming traffic.

POST URIs	Payload	Description
<base_URI>/config/running/mac/access-list	<standard><name>{req_val}</name></standard>	Creates a standard MAC access control list (ACL).
<base_URI>/config/running/mac/access-list/standard/{name}	<seq><seq-id>{req_val}</seq-id><action>{enumeration}</action><source>{enumeration}</source></seq>	Configures a standard MAC ACL.
<base_URI>/config/running/mac/access-list	<extended><name>{req_val}</name></extended>	Creates an extended MAC access control list (ACL).
<base_URI>/config/running/mac/access-list/extended/{name}	<seq><seq-id>{req_val}</seq-id><action>{enumeration}</action><source>{enumeration}</source><srchost>{mac-address-type}</srchost><src-mac-addr-mask>{src-dst-mac-address-mask-type}</src-mac-addr-mask><dst>{enumeration}</dst></seq>	Configures an extended MAC ACL.

DELETE URIs
<base_URI>/config/running/mac/access-list/standard/{name}
<base_URI>/config/running/mac/access-list/standard/{name}/seq/{seq-id}
<base_URI>/config/running/mac/access-list/extended/{name}
<base_URI>/config/running/mac/access-list/extended/{name}/seq/{seq-id}

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.

<i>log</i>	Enables log.
<i>count</i>	Displays the count of forwarding entries.
<i>srchost</i>	Specifies the source host.

Usage Guidelines

GET, POST, 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.

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.

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 nsx keyword and replace it with the hardware-vtep keyword, supporting both NSX Controller and OpenStack deployments.

overlay-gateway/attach

Configures, modifies, or retrieves overlay gateway instances.

Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/attach	Attach gateway instance.

Parameters

- 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

vnid

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">
      <vnid>5</vnid>
    </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 <base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/{site-name}/bfd.

ovsdb-server

Configures, modifies, or retrieves an Open vSwitch Database SSL server for OpenStack deployments.

Resource URIs

URI	Description
<base_URI>/config/running/ovsdb-server	Configures an Open vSwitch Database SSL server for OpenStack deployments.

Parameters

name

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 alphabetic characters that must occur in the password. The value can range from 0 through 32. The default minimum value is 8 lower-case alphabetic characters.

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.

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 1000000000000 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>
      <cbs>1300</cbs>
      <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.

pf-cos

Specifies the CoS value.

<i>pfc-tx</i>	Specifies pause generation. Supported configurations are on and off . Configuring on enables pause generation. Configuring off disables pause generation.
<i>pfc-rx</i>	Enables or disables PFC pause reception.
<i>tx</i>	Enables or disables pause generation.
<i>rx</i>	Enables or disables pause reception.
<i>access-group-name</i>	Configures the access list name.
<i>direction</i>	Sets the direction to in (ingress direction).
<i>vlan-type</i>	Specifies the VLAN type.

Usage Guidelines

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

Examples

The following 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>
          </flowcontrol>
        </qos-profile>
      </qos-profile>
    </port-profile>
```

```

        <rx>on</rx>
      </flowcontrolglobal>
    </flowcontrol>
  <gos>
</gos-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.

xprotocol

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>dcboxfcoe1</description>
  <hello>5</hello>
  <mode>rx</mode>
  <multiplier>2</multiplier>
  <advertise y:self="/rest/config/running/protocol/lldp/advertise">
    <dcbox-fcoe-app-tlv>true</dcbox-fcoe-app-tlv>
    <dcbox-fcoe-logical-link-tlv>true</dcbox-fcoe-logical-link-tlv>
    <dcbox-tlv>true</dcbox-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/lldp/advertise/bgp-auto-nbr-tlv

Enables LLDP to advertise BGP information containing the interface IP address and Local AS number.

Resource URIs

URI	Description
<base_URI>/config/running/protocol/lldp	Enables LLDP to advertise BGP information containing the interface IP address and Local AS number.

Usage Guidelines

GET, 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/config/running/protocol/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/protocol/lldp">
  <advertise y:self="/rest/config/running/protocol/lldp/advertise">
    <dcbx-fcoe-app-tlv>false</dcbx-fcoe-app-tlv>
    <dcbx-fcoe-logical-link-tlv>false</dcbx-fcoe-logical-link-tlv>
    <dcbx-tlv>false</dcbx-tlv>
    <optional-tlv y:self="/rest/config/running/protocol/lldp/advertise/optional-tlv">
      <system-name>false</system-name>
    </optional-tlv>
  </advertise>
  <system-description>Brocade-VDX-VCS 19</system-description>
</lldp>
```

History

Release version	History
7.2.0	This API call was introduced.

protocol/spanning-tree/stp

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.
<base_URI>/config/running/protocol/spanning-tree /stp	

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.

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).

limit
Configures the rate limit (packets per second).

burst
Configures the burst limit (packets).

direction
Specifies input policy.

policy-map-name
Specifies QoS policy map name.

add
Adds RBridges on which the QoS policy must be activated.

remove
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>
```

```
</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.

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 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/route1%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}/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 3/0/4 for RBridge 3, slot 0, and N_Port 4.

Usage Guidelines

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

Examples

The following 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/

rbridge-id/{rbridge-number}/ag

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}/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}/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 ipv4-acl parameter.

rbridge-id/{rbridge-number}/hardware-profile/tcam/ipv4-acl

Optimizes resources to allow TCAM usage for IPv4 ACLs.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/19/hardware-profile	Optimizes resources to allow TCAM usage for IPv4 ACLs

Parameters

rbridge-id

Specifies the RBridge.

tcam_profiletype

Specifies the TCAM profile type.

predefined

Specifies predefined.

Usage Guidelines

GET, 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/config/running/rbridge-id/19/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/19/hardware-profile">
  <tcam y:self="/rest/config/running/rbridge-id/19/hardware-profile/tcam">
    <tcam_profiletype>default</tcam_profiletype>
  </tcam>
  <route-table y:self="/rest/config/running/rbridge-id/19/hardware-profile/route-table">
    <routing_profiletype>default</routing_profiletype>
    <maximum_paths>8</maximum_paths>
    <openflow>off</openflow>
  </route-table>
  <kap y:self="/rest/config/running/rbridge-id/19/hardware-profile/kap">
    <kap_profiletype>default</kap_profiletype>
    <custom-profile y:self="/rest/config/running/rbridge-id/19/hardware-profile/kap/custom-profile">
    </custom-profile>
  </kap>
</hardware-profile>
```

History

Release version	History
7.2.0	This API call was introduced.

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.

rbridge-id/{rbridge-number}/interface

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

rbridge-id/{rbridge-number}/interface

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 <code><base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/snmp</code> .

rbridge/{rbridge-number}/interface/{interface-name}/rpf-mode

Enables strict or loose unicast Reverse Path Forwarding (uRPF) mode on an interface.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/5/interface/ve/10/rpf-mode/strict	Enables strict or loose unicast Reverse Path Forwarding (uRPF) mode on an interface.
<base_URI>/config/running/rbridge-id/5/interface/ve/10/rpf-mode/loose	Enables loose unicast Reverse Path Forwarding (uRPF) mode on an interface

Parameters

rbridge-id

Specifies the RBridge ID.

interface

Specifies interface.

name

Specifies the interface name.

strict

Specifies RPF mode as strict

loose

Specifies RPF mode as loose.

Usage Guidelines

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

rbridge/{rbridge-number}/interface/{interface-name}/rpf-mode

Examples

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

URI

http://host:80/config/running/rbridge-id/5/interface/ve/10/rpf-mode

Request Body

None

Response Body

None

History

Release version	History
7.2.0	This API call was introduced.

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 1.1.1.1/24.

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%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 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

<i>route</i>	Configures static route.
<i>extcommunity-list</i>	Sets BGP Extended Community filter.
<i>import</i>	Imports IPv4 routes.
<i>dhcp</i>	Configures Dynamic Host Configuration Protocol (DHCP).
<i>community-list</i>	Configures IP Community list.
<i>as-path</i>	Configures IP AS Path.
<i>prefix-list</i>	Configures IP address prefix list.
<i>router-id</i>	Specifies the IPv4 address that you want as the router ID.

Usage Guidelines

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

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

rbridge-id/{rbridge-number}/ip/route

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 <base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route/static/bfd.

rbridge-id/{rbridge-number}/ipv6

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

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configures Internet Protocol version 6 (IPv6).
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/import	Imports IPv6 routes. Refer to rbridge-id/{rbridge-number}/ipv6/import for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/nd	Configures Neighbor Discovery commands. Refer to rbridge-id/{rbridge-number}/ipv6/nd for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/prefix-list	Sets IPv6 address prefix list. Refer to rbridge-id/{rbridge-number}/ipv6/prefix-list for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/protocol	Configures IPv6 protocol. Refer to rbridge-id/{rbridge-number}/ipv6/protocol for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/receive	Configures IPv6 receive access group. Refer to rbridge-id/{rbridge-number}/ipv6/receive for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/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-vrrpv3" y:self="/rest/config/running/rbridge-id/195/ipv6/protocol"/>
  <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy" y:self="/rest/config/running/rbridge-id/195/ipv6/prefix-list/deny554%2Cseq%2C10"/>
  <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rbridge-id/195/ipv6/route"/>
  <anycast-gateway-mac xmlns="urn:brocade.com:mgmt:brocade-vrrp" y:self="/rest/config/running/rbridge-id/195/ipv6/anycast-gateway-mac"></anycast-gateway-mac>
  <import xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm" y:self="/rest/config/running/rbridge-id/195/ipv6/import"/>
  <nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra" y:self="/rest/config/running/rbridge-id/195/ipv6/nd"/>
  <receive xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list" y:self="/rest/config/running/rbridge-id/1/ipv6/receive">
  <router y:self="/rest/config/running/rbridge-id/195/ipv6/router"/>
</ipv6>
```

History

Release version	History
5.0.0	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>
  </ospf>
</router>
```

```

    </graceful-restart>
    <key-add-remove-interval>1000</key-add-remove-interval>
    <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>routel</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:

dflt_aggressive_policy

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

dflt_moderate_policy

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

dflt_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
7.2.0	Option for rule with monitor as ASIC_PKTDROP has been introduced.

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

rbridge-id/{rbridge-number}/openflow

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 Redundancy Protocol (VRRP).

vrrp-extended

Enables Virtual Router Redundancy 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>
```

rbridge-id/{rbridge-number}/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}/resource-monitor/memory/enable/threshold

Enables the threshold or for the system memory.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/9/resource-monitor/memory/enable/threshold	Enables the threshold or for the system memory.

Parameters

rbridge-id

Specifies the RBridge ID.

action

Specifies an action to be taken.

alarm

Sets an alarm.

critical

Sets the threshold as critical.

Usage Guidelines

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

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

URI

http://host:80/config/running/rbridge-id/9/resource-monitor

Request Body

None

Response Body

```
<resource-monitor xmlns="urn:brocade.com:mgmt:brocade-resource-monitor" xmlns:y="http://
brocade.com/ns/rest" y:self="/rest/config/running/rbridge-id/5/resource-monitor">
  <cpu y:self="/rest/config/running/rbridge-id/5/resource-monitor/cpu">
    <enable>true</enable>
  </cpu>
  <memory y:self="/rest/config/running/rbridge-id/5/resource-monitor/memory">
    <enable>true</enable>
    <threshold>100</threshold>
    <action>raslog</action>
  </memory>
  <process y:self="/rest/config/running/rbridge-id/5/resource-monitor/process">
    <memory y:self="/rest/config/running/rbridge-id/5/resource-monitor/process/memory">
      <enable>true</enable>
      <alarm>600</alarm>
      <critical>700</critical>
    </memory>
  </process>
</resource-monitor>
```

The following example uses the PATCH option to modify the system memory threshold.

URI

http://host:80/rest/config/running/rbridge-id/9/resource-monitor

Request Body

```
<resource-monitor><memory><enable>true</enable><threshold>100</threshold><action>raslog</action></
memory>
</resource-monitor>
```

Response Body

None

The following example uses the DELETE option to delete the system memory threshold configuration.

URI

http://host:80/rest/config/running/rbridge-id/9/resource-monitor/memory/enable

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/resource-monitor/process/memory/enable/alarm

Configures an alarm for the process memory.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/9/resource-monitor/process	Configures an alarm for the process memory.

Parameters

rbridge-id

Specifies the RBridge ID.

critical

Specifies the threshold as critical.

Usage Guidelines

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

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

URI

http://host:80/config/running/rbridge-id/9/resource-monitor/process

Request Body

None

Response Body

```
<process xmlns="urn:brocade.com:mgmt:brocade-resource-monitor" xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/5/resource-monitor/process">
  <memory y:self="/rest/config/running/rbridge-id/5/resource-monitor/process/memory">
    <enable>true</enable>
    <alarm>600</alarm>
    <critical>700</critical>
```

The following example uses the PATCH option to configure the process memory alarm.

URI

http://host:80/rest/config/running/rbridge-id/9/resource-monitor/process

Request Body

```
<process>
  <memory>
    <enable>true</enable>
    <alarm>600</alarm>
    <critical>700</critical>
```

Response Body

None

The following example uses the DELETE option to delete the process memory alarm configuration.

URI

http://host:80/rest/config/running/rbridge-id/9/resource-monitor/process

Request Body

None

Response Body

None

History

Release version	History
7.1.0	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>ROUTEMAP1</name>
  <action-rm>permit</action-rm>
  <instance>10</instance>
</route-map>

```

Response Body

None

The following is an example of the DELETE operation to delete the remove the route map configuration.

URI

http://host:80/rest/config/running/rbridge-id/1/route-map/ROUTEMAP%2Cpermit%2C10

Request Body

None

Response Body

None

History

Release version	History
5.0.0	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}/route-map/match/community/GSHUT

Matches a BGP community access list name in a route-map instance.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/5/route-map	Matches a BGP community access list name in a route-map instance.

Parameters

name

Specifies the name of the route map.

action-rm

Specifies the action.

instance

Specifies the instance.

content

Specifies the content.

community-access-list-name

Specifies the community access list name.

Usage Guidelines

Examples

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

URI

http://host:80/config/running/rbridge-id/5/route-map/

Request Body

```
<name></name>
```

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/5/route-map/RM1%2Cpermit%2C10/match">
  <name>RM1</name>
  <action-rm>permit</action-rm>
  <instance>10</instance>
  <match y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match">
    <interface y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/interface">
      </interface>
    <ipv6 y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/ipv6">
      <address y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/ipv6/address">
        </address>
      <next-hop y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/ipv6/next-hop">
        </next-hop>
      <route-source y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/ipv6/route-source">
        </route-source>
      </ipv6>
    <ip y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/ip">
      <address y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/ip/address">
        </address>
      <next-hop y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/ip/next-hop">
        </next-hop>
      <route-source y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/ip/route-source">
        </route-source>
      </ip>
    <extcommunity y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/extcommunity">
      </extcommunity>
    <metric y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/metric">
      </metric>
    <route-type y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/route-type">
      </route-type>
    <tag y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/tag">
      </tag>
    <as-path y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/as-path">
      </as-path>
    <community y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/community">
      <community-access-list-name>GSHUT</community-access-list-name>
    </community>
    <protocol y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/match/protocol">
      </protocol>
    </match>
  <set y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set">
```

```

<ip y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/ip">
  <dscp y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/ip/dscp">
  </dscp>
  <interface y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/ip/
interface">
  </interface>
  <next-hop y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/ip/next-hop">
  </next-hop>
  <global y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/ip/global">
  </global>
</ip>
<ipv6 y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/ipv6">
  <interface y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/ipv6/
interface">
  </interface>
  <global y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/ipv6/global">
  </global>
</ipv6>
<extcommunity y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/
extcommunity">
  <rt y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/extcommunity/rt">
  </rt>
  <soo y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/extcommunity/soo">
  </soo>
</extcommunity>
<community y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/community">
</community>
<metric y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/metric">
</metric>
<distance y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/distance">
</distance>
<tag y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/tag">
</tag>
<weight y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/weight">
</weight>
<as-path y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/as-path">
</as-path>
<automatic-tag y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/automatic-
tag">
</automatic-tag>
<comm-list y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/comm-list">
</comm-list>
<dampening y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/dampening">
</dampening>
<local-preference y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/local-
preference">
</local-preference>
<origin y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/origin">
</origin>
<metric-type y:self="/rest/config/running/rbridge-id/5/route-map/RM1%2Cpermit%2C10/set/metric-type">
</metric-type>
</set>
</route-map>

```

History

Release version	History
7.2.0	This API call was introduced.

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-fallover

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 Extreme 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 Extreme 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**.

ibgp

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-bfd" 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>
</bgp>
```

```

<neighbor y:self="/rest/config/running/rbridge-id/122/router/bgp/default/neighbor/PeerGroup1">
  <address>PeerGroup1</address>
</neighbor>
<neighbor xmlns="urn:brocade.com:mgmt:brocade-bgp" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/
config/running/rbridge-id/1/router/bgp/neighbor">
  <neighbor-peer-grp y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-peer-grp/
peer1">
    <address>peer1</address>
    <bfd y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-peer-grp/peer1/bfd">
      <holdover-interval>10</holdover-interval>
      <interval xmlns="urn:brocade.com:mgmt:brocade-bfd" y:self="/rest/config/running/rbridge-id/1/
router/bgp/neighbor/neighbor-peer-grp/peer1/bfd/interval">
        <min-tx>70</min-tx>
        <min-rx>60</min-rx>
        <multiplier>10</multiplier>
      </interval>
    </bfd>
  </neighbor-peer-grp>
  <neighbor-ipv6-addr y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-ipv6-
addr/2004:384d::21:22">
    <address>2004:384d::21:22</address>
    <bfd y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-ipv6-addr/2004:384d::
21:22/bfd">
      <holdover-interval>25</holdover-interval>
      <interval xmlns="urn:brocade.com:mgmt:brocade-bfd" y:self="/rest/config/running/rbridge-id/1/
router/bgp/neighbor/neighbor-ipv6-addr/2004:384d::21:22/bfd/interval">
        <min-tx>60</min-tx>
        <min-rx>60</min-rx>
        <multiplier>40</multiplier>
      </interval>
    </bfd>
  </neighbor-ipv6-addr>
  <neighbor-addr xmlns="urn:brocade.com:mgmt:brocade-bgp" y:self="/rest/config/running/rbridge-id/1/
router/bgp/neighbor/neighbor-addr/1.1.1.1">
    <address>1.1.1.1</address>
    <ebgp-btsh></ebgp-btsh>
    <bfd y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-addr/1.1.1.1/bfd">
      <holdover-interval>20</holdover-interval>
      <interval xmlns="urn:brocade.com:mgmt:brocade-bfd" y:self="/rest/config/running/rbridge-id/1/
router/bgp/neighbor/neighbor-addr/1.1.1.1/bfd/interval">
        <min-tx>5000</min-tx>
        <min-rx>3000</min-rx>
        <multiplier>4</multiplier>
      </interval>
    </bfd>
  </neighbor-addr>
</neighbor>
<neighbor y:self="/rest/config/running/rbridge-id/122/router/bgp/default/neighbor/VCS_8192">
  <address>VCS_8192</address>
</neighbor>
<address-family y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family">
  <ipv4 y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/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>
    <route-map>route1</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>
    <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">
          <metric>500</metric>
          <route-map>map2</route-map>
        </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 <code>rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor</code> .

rbridge-id/{rbridge-number}/router/bgp/listen-limit

Configures the listen limit for the Border Gateway Protocol (BGP).

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/9/router/bgp	Configures the listen limit for the BGP.

Parameters

rbridge-id

Specifies the RBridge ID.

listen-range-prefix

Specifies the IP address in dotted decimal and mask.

peer-group

Specifies the peer group.

Usage Guidelines

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

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

URI

http://host:80/config/running/rbridge-id/9/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/9/router/bgp">
  <cluster-id y:self="/rest/config/running/rbridge-id/9/router/bgp/cluster-id">
    </cluster-id>
  <distance y:self="/rest/config/running/rbridge-id/9/router/bgp/distance">
    </distance>
  <capability y:self="/rest/config/running/rbridge-id/9/router/bgp/capability">
    </capability>
  <maxas-limit y:self="/rest/config/running/rbridge-id/9/router/bgp/maxas-limit">
    <in y:self="/rest/config/running/rbridge-id/9/router/bgp/maxas-limit/in">
      </in>
    </maxas-limit>
  <timers y:self="/rest/config/running/rbridge-id/9/router/bgp/timers">
    </timers>
  <confederation y:self="/rest/config/running/rbridge-id/9/router/bgp/confederation">
    </confederation>
  <bfd y:self="/rest/config/running/rbridge-id/9/router/bgp/bfd">
    <interval xmlns="urn:brocade.com:mgmt:brocade-bfd" y:self="/rest/config/running/rbridge-id/9/
router/bgp/bfd/interval">
      </interval>
    </bfd>
  <listen-limit>10</listen-limit>
  <neighbor y:self="/rest/config/running/rbridge-id/9/router/bgp/neighbor">
    <neighbor-peer-grp y:self="/rest/config/running/rbridge-id/9/router/bgp/neighbor/neighbor-peer-grp/
ebgp_scl_61">
      <address>ebgp_scl_61</address>
    </neighbor-peer-grp>
  </neighbor>
  <listen-range y:self="/rest/config/running/rbridge-id/9/router/bgp/listen-range/
%2227.1.0.0/16%22%2Cebgp_scl_61">
    <listen-range-prefix>27.1.0.0/16</listen-range-prefix>
    <peer-group>ebgp_scl_61</peer-group>
  </listen-range>
  <address-family y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family">
    <ipv4 y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4">
      <unicast y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast">
        <default-vrf-selected>true</default-vrf-selected>
        <redistribute y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
redistribute">
          <bgp y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
redistribute/bgp">
            </bgp>
          <connected y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
redistribute/connected">
            </connected>
          <ospf y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
redistribute/ospf">
            <match y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
redistribute/ospf/match">
              </match>
            </ospf>
          <static y:self="/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
redistribute/static">
            </static>
          </redistribute>
        </unicast>
      </ipv4>
    </address-family>
  </listen-range>
  </neighbor>
  </listen-limit>
  </neighbor-peer-grp>
  </neighbor>
  </listen-range>
  </address-family>
  </bfd>
  </confederation>
  </timers>
  </maxas-limit>
  </capability>
  </distance>
  </cluster-id>
</bgp>
```

```

    </redistribute>
  <neighbor y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
neighbor"">
  </neighbor>
  <maximum-paths y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/
unicast/maximum-paths"">
  </maximum-paths>
  <multipath y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
multipath"">
  </multipath>
  <client-to-client-reflection>true</client-to-client-reflection>
  <dampening y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
dampening"">
  </dampening>
  <table-map y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/
table-map"">
  </table-map>
  <graceful-restart y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/
unicast/graceful-restart"">
  </graceful-restart>
  <vrf y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv4/unicast/vrf/v1"">
    <vrf-name>v1</vrf-name>
  </vrf>
  </unicast>
</ipv4>
  <ipv6 y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6"">
    <unicast y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast"">
      <default-vrf-selected>true</default-vrf-selected>
      <redistribute y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
redistribute"">
        <bgp y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
redistribute/bgp"">
          </bgp>
          <connected y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
redistribute/connected"">
            </connected>
            <ospf y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
redistribute/ospf"">
              <match y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
redistribute/ospf/match"">
                </match>
              </ospf>
              <static y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
redistribute/static"">
                </static>
              </redistribute>
            <neighbor y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
neighbor"">
              </neighbor>
              <maximum-paths y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/
unicast/maximum-paths"">
                </maximum-paths>
                <multipath y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
multipath"">
                  </multipath>
                  <client-to-client-reflection>true</client-to-client-reflection>
                  <dampening y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
dampening"">
                    </dampening>
                    <table-map y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/unicast/
table-map"">
                      </table-map>
                      <graceful-restart y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/ipv6/
unicast/graceful-restart"">
                        </graceful-restart>
                      </unicast>
                    </ipv6>
                    <l2vpn y:self=""/rest/config/running/rbridge-id/9/router/bgp/address-family/l2vpn"">
                      </l2vpn>
                    </address-family>
                  </bgp>

```

The following example uses the POST option to configure the listen limit.

URI

http://host:80/rest/config/running/rbridge-id/9/router/bgp

Request Body

```
<listen-limit>10</listen-limit>
```

Response Body

None

The following example uses the DELETE option to delete the listen limit configuration.

URI

http://host:80/rest/config/running/rbridge-id/9/router/bgp/listen-limit

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/router/bgp/listen-range/peer-group/limit

Configures the listen range prefix.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/9/router/bgp/listen-range	Configures the listen range prefix.

Parameters

rbridge-id

Specifies the RBridge ID.

listen-range-prefix

Specifies the IP address in dotted decimal and mask.

peer-group

Specifies the peer group.

Usage Guidelines

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

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

URI

http://host:80/config/running/rbridge-id/9/router/bgp/listen-range/%2227.1.0.0/16%22%2Cebgp_scl_61

Request Body

None

Response Body

```
<listen-range xmlns="urn:brocade.com:mgmt:brocade-bgp" xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/9/router/bgp/listen-range/%2227.1.0.0/16%22%2Cebgp_scl_61">
  <listen-range-prefix>27.1.0.0/16</listen-range-prefix>
  <peer-group>ebgp_scl_61</peer-group>
  <limit>10</limit>
</listen-range>
```

The following example uses the PUT option to modify the listen range prefix for BGP.

URI

http://host:80/rest/config/running/rbridge-id/9/router/bgp/listen-range

Request Body

```
<listen-range> <listen-range-prefix>27.1.0.0/16</listen-range-prefix> <peer-group>ebgp_scl_61</peer-
group> <limit>10</limit></listen-range>
```

Response Body

None

The following example uses the DELETE option to delete the listen range prefix for BGP.

URI

http://host:80/rest/config/running/rbridge-id/9/router/bgp/listen-range/%2227.1.0.0/16%22%2Cebgp_scl_61

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp

Enables automatic neighbor discovery, TCP MD-5 password, and configures a peer group.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge/{rbridge-id}/router/bgp/neighbor/lf-spn-grp/accept-lldp-neighbors	Enables BGP automatic neighbor discovery.
<base_URI>/config/running/rbridge/{rbridge-id}/router/bgp/neighbor/lf-spn-grp/password	Enables TCP-MD5 password protection.
<base_URI>/rbridge/{rbridge-id}/router/bgp/neighbor/lf-spn-grp/peer-group	Configures a BGP neighbor peer group.

Parameters

peer-grps

Specifies the peer group.

neighbor-peer-grp

Specifies the peer group.

router-bgp-neighbor-peer-grp

Specifies the BGP neighbor peer group for the router.

peer-group-name

Specifies the peer group 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/config/running/rbridge/{rbridge-id}/router/bgp/neighbor/lf-spn-grp/accept-lldp-neighbors

http://host:80/config/running/rbridge-id/5/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/password

http://host:80/rbridge/{rbridge-id}/router/bgp/neighbor/lf-spn-grp/peer-group

Request Body

None

Response Body

```
<neighbor-peer-grp xmlns="urn:brocade.com:mgmt:brocade-bgp" xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp">
  <address>lf-spn-grp</address>
  <peer-group>true</peer-group>
  <alternate-as y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-
grp/alternate-as">
    </alternate-as>
  <update-source y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-
spn-grp/update-source">
    </update-source>
  <accept-lldp-neighbors>true</accept-lldp-neighbors>
  <local-as y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/
local-as">
    </local-as>
  <next-hop-self y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-
spn-grp/next-hop-self">
    </next-hop-self>
  <advertisement-interval y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-
grp/lf-spn-grp/advertisement-interval">
    </advertisement-interval>
  <ebgp-multihop y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-
spn-grp/ebgp-multihop">
    </ebgp-multihop>
  <password>2 $dT= </password>
  <enforce-first-as y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-
spn-grp/enforce-first-as">
    </enforce-first-as>
  <timers y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/
timers">
    </timers>
  <soft-reconfiguration y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-
grp/lf-spn-grp/soft-reconfiguration">
    </soft-reconfiguration>
  <bfd y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/bfd">
    <interval xmlns="urn:brocade.com:mgmt:brocade-bfd" y:self="/rest/config/running/rbridge-id/19/
router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/bfd/interval">
      </interval>
    </bfd>
  <maxas-limit y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-
grp/maxas-limit">
    <in y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/
maxas-limit/in">
      </in>
    </maxas-limit>
  <graceful-shutdown y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-
grp/lf-spn-grp/graceful-shutdown">
    </graceful-shutdown>
  </neighbor-peer-grp>
```

rbridge-id/{rbridge-number}/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp

```
<capability y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/capability">
  <as4 y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/capability/as4">
    </as4>
  </capability>
  <shutdown y:self="/rest/config/running/rbridge-id/19/router/bgp/neighbor/neighbor-peer-grp/lf-spn-grp/shutdown">
    </shutdown>
  </neighbor-peer-grp>
```

History

Release version	History
7.2.0	This API call was introduced.

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/pim/bsr-candidate/interface/{interface-type}/bsr-priority

Sets the BSR priority.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/6/router/pim/bsr-candidate/interface	Sets the BSR priority.

Parameters

rbridge-id

Specifies the RBridge ID.

bsr-cand-intf-type

Specifies the interface type.

bsr-cand-intf-id

Specifies the interface ID.

mask

The BSR hash mask length.

priority

Specifies the BSR priority.

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/rbridge-id/6/router/pim/bsr-candidate/interface/tengigabitethernet%2C%226/0/12%22

Request Body

None

Response Body

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-pim"" xmlns:y=""http://brocade.com/ns/rest"" y:self=""/
rest/config/running/rbridge-id/9/router/pim/bsr-candidate/interface/tengigabitethernet%2C%229/0/24%22"">
  <bsr-cand-intf-type>tengigabitethernet</bsr-cand-intf-type>
  <bsr-cand-intf-id>9/0/24</bsr-cand-intf-id>
  <mask>10</mask>
  <priority>32</priority>
</interface>
```

The following example uses the PUT option to modify the BSR priority configuration.

URI

http://host:80/rest/config/running/rbridge-id/6/router/pim/bsr-candidate/interface/tengigabitethernet%2C%226/0/12%22

Request Body

```
<interface><bsr-cand-intf-type>tengigabitethernet</bsr-cand-intf-type><bsr-cand-intf-id>6/0/12</bsr-
cand-intf-id><mask>10</mask> <priority>32</priority></interface>
```

Response Body

<None

The following example uses the DELETE option to delete the BSR priority configuration.

URI

http://host:80/rest/config/running/rbridge-id/6/router/pim/bsr-candidate/interface/tengigabitethernet%2C%226/0/12%22

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/router/pim/bsr-msg-interval

Sets the PIM BSR message interval timer.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/9/router/pim/bsr-msg-interval	Sets the PIM BSR message interval timer.

Parameters

rbridge-id

Specifies the RBridge ID.

bsr-msg-interval

Specifies the bootstrap message interval value.

Usage Guidelines

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

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

URI

http://host:80/rest/config/running/rbridge-id/9/router/pim

Request Body

None

Response Body

```
<pim xmlns="urn:brocade.com:mgmt:brocade-pim" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rbridge-id/9/router/pim">
  <bsr-msg-interval>30</bsr-msg-interval>
  <bsr-candidate y:self="/rest/config/running/rbridge-id/9/router/pim/bsr-candidate">
  </bsr-candidate>
  <rp-candidate y:self="/rest/config/running/rbridge-id/9/router/pim/rp-candidate">
  </rp-candidate>
</pim>
```

The following is an example of the PUT operation to add or modify the interval for the PIM BSR message timer.

URI

http://host:80/rest/config/running/rbridge-id/9/router/pim/bsr-msg-interval

Request Body

```
<bsr-msg-interval>60</bsr-msg-interval>
```

Response Body

None

The following is an example of the DELETE operation to change the IPv4 PIM BSR message to the default value.

URI

http://host:80/rest/config/running/rbridge-id/9/router/pim/bsr-msg-interval

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/router/pim/rp-adv-interval

Configures the interval at which the candidate rendezvous point (RP) configured on the device sends candidate RP advertisement messages to the bootstrap router (BSR).

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/5/router/pim/rp-adv-interval	Configures the interval at which the candidate RP configured on the device sends candidate RP advertisement messages to the BSR.

Parameters

rbridge-id

Specifies the RBridge ID.

rp-adv-interval

Specifies the RP candidate advertisement message interval value.

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/rbridge-id/5/router/pim/rp-adv-interval

Request Body

None

Response Body

```
<pim xmlns="urn:brocade.com:mgmt:brocade-pim" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rbridge-id/9/router/pim">
  <rp-adv-interval>30</rp-adv-interval>
  <bsr-candidate y:self="/rest/config/running/rbridge-id/9/router/pim/bsr-candidate">
  </bsr-candidate>
  <rp-candidate y:self="/rest/config/running/rbridge-id/9/router/pim/rp-candidate">
  </rp-candidate>
</pim>
```

The following example uses the PUT option to add or modify the interval.

URI

http://host:80/rest/config/running/rbridge-id/5/router/pim/rp-adv-interval

Request Body

```
<rp-adv-interval>30</rp-adv-interval>
```

Response Body

None

The following example uses the DELETE option to delete the interval.

URI

http://host:80/rest/config/running/rbridge-id/5/router/pim/rp-adv-interval

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/router/pim/rp-candidate/group-range

Configures the group prefix IP address.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/6/router/pim/rp-candidate/group-range	Configures the group prefix IP address.

Parameters

rbridge-id

Specifies the RBridge ID.

rp-cand-grp-prefix *rp-cand-grp-prefix-ip*

Specifies the group prefix IP address.

rp-cand-grp-prefix-length

Specifies the 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/6/router/pim/rp-candidate/group-range/230.1.0.0%2C16

Request Body

None

Response Body

```
<group-range xmlns=""urn:brocade.com:mgmt:brocade-pim"" xmlns:y=""http://brocade.com/ns/rest""
y:self=""/rest/config/running/rbridge-id/9/router/pim/rp-candidate/group-range/230.1.0.0%2C16"">
  <rp-cand-grp-prefix-ip>230.1.0.0</rp-cand-grp-prefix-ip>
  <rp-cand-grp-prefix-length>16</rp-cand-grp-prefix-length>
</group-range>
```

The following is an example of the PUT operation to add or modify the group prefix IP address.

URI

http://host:80/rest/config/running/rbridge-id/6/router/pim/rp-candidate/group-range

Request Body

```
<group-range><rp-cand-grp-prefix-ip>230.1.0.0</rp-cand-grp-prefix-ip><rp-cand-grp-prefix-length>16</rp-cand-grp-prefix-length></group-range>
```

Response Body

None

The following is an example of the DELETE operation to delete the group range for an RP.

URI

http://10.20.63.220:80/rest/config/running/rbridge-id/6/router/pim/rp-candidate/group-range/230.1.0.0%2C161

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/router/pim/rp-candidate/interface/{interface-type}/priority

Configures a device as the rendezvous point (RP).

Resource URIs

URI	Description
<base_URI>/rest/config/running/rbridge-id/6/router/pim/rp-candidate/interface	Configures a device as the RP.

Parameters

rbridge-id

Specifies the RBridge ID.

rp-cand-intf-type

Specifies the interface information.

rp-cand-intf-id

Specifies the interface ID.

priority

Specifies the RP candidate priority.

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/6/router/pim/rp-candidate/interface/ve%2C101

Request Body

```
<Vlan><name>101</name></Vlan>
```

Response Body

```
<interface xmlns="urn:brocade.com:mgmt:brocade-pim" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rbridge-id/9/router/pim/rp-candidate/interface/ve%2C101">
  <rp-cand-intf-type>ve</rp-cand-intf-type>
  <rp-cand-intf-id>101</rp-cand-intf-id>
  <priority>10</priority>
</interface>
```

The following is an example of the PATCH operation to add or modify a device as an RP candidate.

URI

http://host:80/rest/config/running/rbridge-id/6/router/pim/bsr-candidate/interface

Request Body

```
<interface><rp-cand-intf-type>ve</rp-cand-intf-type><rp-cand-intf-id>100</rp-cand-intf-id><priority>10</priority></interface>
```

Response Body

None

rbridge-id/{rbridge-number}/router/pim/rp-candidate/interface/{interface-type}/priority

The following is an example of the DELETE operation to change a device from RP to a PIM router.

URI

http://host80/rest/config/running/rbridge-id/6/router/pim/rp-candidate/interface/ve%2C101

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

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>routel</route-map>
  </default-information-originate>
  <default-metric>11</default-metric>
  <external-lsdb-limit>14987</external-lsdb-limit>
  <log y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/log">
    <all>true</all>
  </log>
  <metric-type>type1</metric-type>
  <neighbor y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/neighbor/10.12.34.87">
    <neighbor-addr>10.12.34.87</neighbor-addr>
  </neighbor>
  <redistribute y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute">
    <connected y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute/
connected">
      <route-map>routel</route-map>
    </connected>
    <static y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute/static">
      <route-map>routel</route-map>
    </static>
    <bgp y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute/bgp">
      <route-map>routel</route-map>
    </bgp>
  </redistribute>
  <area y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/area/0.0.0.0">
    <area-id>0.0.0.0</area-id>
    <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-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>
<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>
<distribute-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>
</distribute-list>
<max-metric y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric">
  <router-lsa y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/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>
        <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.

Release version	History
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: nssa , default-information-originate , no-redistribution , translator-always , and translator-interval .

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> .

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>
```

rbridge-id/{rbridge-number}/vrf

```
<ip y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/ipv6">
  <router-id>1.2.1.1</router-id>
</ip v6>
</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.

rbridge-id/{rbridge-number}/vrf/ip/export/map/{export-map-name}/evpn

Applies a route-map filter on the IP routes to be imported.

Resource URIs

URI	Description
<base_URI>//config/running/rbridge-id/7/vrf/V2/address-family/ipv4/unicast/export	Applies a route-map filter on the IP routes to be imported.

Parameters

- export**
Applies a route-map filter on the routes to be exported.
- map*
Specifies the route-map filter to be applied on export route.
- evpn*
Filters routes from the EVPN.

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/rbridge-id/7/vrf/V2/address-family/ipv4/unicast/export

Request Body

None

Response Body

```
<export xmlns=""urn:brocade.com:mgmt:brocade-vrf"" xmlns:y=""http://brocade.com/ns/rest"" y:self=""/rest/config/running/rbridge-id/9/vrf/2/address-family/ipv4/unicast/export"">
  <map>TESTUSER</map>
  <evpn>true</evpn>
</export>
```

The following example uses the PUT option to modify the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv4/unicast/export

Request Body

```
<export><map>Test</map><evpn>true</evpn></export>
```

Response Body

None

The following example uses the DELETE option to delete the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv4/unicast/export

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/vrf/ip/import/map/{import-map-name}/evpn

Applies a route-map filter on the IP routes to be imported.

Resource URIs

URI	Description
<base_URI>/ config/running/rbridge-id/7/vrf/V2/address-family/ipv4/unicast/import	Applies a route-map filter on the IP routes to be imported.

Parameters

- import**
Applies a route-map filter on the routes to be imported.
- map*
Specifies the route-map filter to be applied on import route.
- evpn*
Filters routes from the EVPN.

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/rbridge-id/7/vrf/V2/address-family/ipv4/unicast/import

Request Body

None

Response Body

```
<import xmlns=""urn:brocade.com:mgmt:brocade-vrf"" xmlns:y=""http://brocade.com/ns/rest"" y:self=""/
rest/config/running/rbridge-id/9/vrf/2/address-family/ipv4/unicast/import"">
  <map>TESTUSER</map>
  <evpn>>true</evpn>
</import
```

The following example uses the PUT option to modify the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv4/unicast/import

Request Body

```
<import><map>Test</map><evpn>>true</import>
```

Response Body

None

The following example uses the DELETE option to delete the configuration details.

URI

http://host:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv4/unicast/import

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/vrf/ipv6/export/map/{export-map-name}/evpn

Filters IPv6 routes from Ethernet VPN (EVPN).

Resource URIs

URI	Description
<base_URI>//config/running/rbridge-id/7/vrf/V2/address-family/ipv6/unicast/export	Filters IPv6 routes from Ethernet VPN (EVPN).

Parameters

rbridge-id

Specifies the RBridge ID.

export

Applies a route-map filter on the routes to be exported.

map

Specifies the route-map filter to be applied on export route.

evpn

Filters routes from the EVPN.

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://10.20.237.7:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv6/unicast/export

Request Body

None

Response Body

```
<export xmlns=""urn:brocade.com:mgmt:brocade-vrf"" xmlns:y=""http://brocade.com/ns/rest"" y:self=""/rest/config/running/rbridge-id/9/vrf/2/address-family/ipv6/unicast/export"">
  <map>TESTUSER</map>
  <evpn>true</evpn>
</export>
```

The following example uses the PUT option to modify the configuration details.

URI

http://10.20.237.7:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv6/unicast/export

Request Body

```
<export><map>Test</map><evpn>true</evpn></export>
```

Response Body

None

The following example uses the DELETE option to delete the configuration details.

URI

http://10.20.237.7:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv6/unicast/export

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rbridge-id/{rbridge-number}/vrf/ipv6/import/map/{import-map-name}/evpn

Applies a route-map filter on the IPv6 routes to be imported.

Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/7/vrf/V2/address-family/ipv6/unicast/import	Applies a route-map filter on the IPv6 routes to be imported.

Parameters

rbridge-id

Specifies the RBridge ID.

map

Specifies the route-map filter to be applied on import route.

evpn

Filters routes from the EVPN.

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/rbridge-id/7/vrf/V2/address-family/ipv6/unicast/import

Request Body

None

Response Body

```
<import xmlns=""urn:brocade.com:mgmt:brocade-vrf"" xmlns:y=""http://brocade.com/ns/rest"" y:self=""/
rest/config/running/rbridge-id/9/vrf/2/address-family/ipv6/unicast/import"">
  <map>TESTUSER</map>
  <evpn>>true</evpn>
</import>
```

The following example uses the PUT option to modify the configuration details.

URI

http://10.20.237.7:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv6/unicast/import

Request Body

```
<import><map>Test</map><evpn>>true</evpn></import>
```

Response Body

None

The following example uses the DELETE option to delete the configuration details.

URI

http://10.20.237.7:80/rest/config/running/rbridge-id/7/vrf/V2/address-family/ipv6/unicast/import

Request Body

None

Response Body

None

History

Release version	History
7.1.0	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/gratuitous-arp">
          <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.

rule/{rule-name}/action

Creates role-based access permissions (RBAC) associated with a role.

Resource URIs

URI	Description
<base_URI>/config/running/rule	Creates RBAC associated with a role.

Parameters

index

Specifies a numeric identifier for the rule.

action

Specifies whether the user is accepted or rejected while attempting to execute the specified command.

operation

Specifies the type of operation permitted.

role

Specifies the name of the role.

command

Specifies the command for which access is defined.

Usage Guidelines

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

The switch obtains its configuration from the principal node. Enabling this feature solves most node-segmentation issues.

Examples

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

URI

http://host:80/config/runnin/rule/5

Request Body

None

Response Body

```
<rule xmlns="urn:brocade.com:mgmt:brocade-aaa" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rule/5">
  <index>5</index>
  <action>reject</action>
  <operation>read-write</operation>
  <role>testRole</role>
  <command y:self="/rest/config/running/rule/5/command">
    <show y:self="/rest/config/running/rule/5/command/show">
      <running-config y:self="/rest/config/running/rule/5/command/show/running-config">
        </running-config>
      </show>
    </command>
  </rule>
```

The following example uses the PATCH option to modify the RBAC associated with a role.

URI

http://host:80/rest/config/running/rule/5

Request Body

```
<rule>
  <index>5</index>
  <action>reject</action>
  <operation>read-write</operation>
  <role>testRole</role>
</rule>
```

Response Body

None

The following example uses the DELETE option to delete the RBAC associated with a role.

URI

http://host:80/rest/config/running/rule/5

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

rule/{rule-name}/command/show running-config

Displays the running-config rule for a user.

Resource URIs

URI	Description
<base_URI>/config/running/rule/{rule-name}/command/ show running-config	Displays the running-config rule.

Parameters

index

Specifies a numeric identifier for the rule.

action

Specifies whether the user is accepted or rejected while attempting to execute the specified command.

operation

Specifies the type of operation permitted.

role

Specifies the name of the role.

command

Specifies the command for which access is defined.

Usage Guidelines

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

The switch obtains its configuration from the principal node. Enabling this feature solves most node-segmentation issues.

Examples

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

URI

http://host:80/config/runnin//rule/{rule-name}/command/ show running-config

Request Body

None

Response Body

```
<rule xmlns=""urn:brocade.com:mgmt:brocade-aaa"" xmlns:y=""http://brocade.com/ns/rest"" y:self=""/rest/
config/running/rule/5"">
  <index>5</index>
  <action>reject</action>
  <operation>read-write</operation>
  <role>testRole</role>
  <command y:self=""/rest/config/running/rule/5/command"">
    <show y:self=""/rest/config/running/rule/5/command/show"">
      <running-config y:self=""/rest/config/running/rule/5/command/show/running-config"">
        </running-config>
      </show>
    </command>
  </rule>
```

The following example uses the PATCH option to modify the rule .

URI

http://host:80/rest/config/running/rule/{rule-name}/command/ show running-config

Request Body

```
<rule>
  <index>5</index>
  <command>
    <show>
      <running-config>
        </running-config>
    </show>
  </command>
</rule>
```

Response Body

None

The following example uses the DELETE option to delete the rule.

URI

http://host:80/rest/config/running/rule/{rule-name}

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

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.

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>acl15</ipv4-acl>
  <ipv6-acl>acl12</ipv4-acl>
  <groupname>user</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/OrigEquipMfr">
  <community>OrigEquipMfr</community>
  <groupname>group1</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/&quot;Secret C0de&quot;">
  <community>"Secret C0de"</community>
  <groupname>group3</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/common">
  <community>common</community>
</community>
<community y:self="/rest/config/running/snmp-server/community/private">
  <community>private</community>
  <ipv4-acl>acl115</ipv4-acl>
  <ipv6-acl>acl120</ipv4-acl>
  <groupname>admin</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/public">
  <community>public</community>
  <groupname>user</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/secretcode">
  <community>secretcode</community>
</community>
```

The following is an example of the POST operation to set the community and group name of the SNMP server.

URI

http://host:80/rest/config/running/snmp-server

Request Body

```
<community>
  <community>private</community>
  <ipv4-acl>acl120</ipv4-acl>
  <ipv6-acl>acl125</ipv4-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-acl</i> and <i>ipv6-acl</i> .

snmp-server/context

Configures, modifies, or retrieves SNMP context configuration.

Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server.
<base_URI>/config/running/snmp-server/context	Context to various instance mapping.

Parameters

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>2</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
5.0.0	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.

system-monitor-mail

Configures, modifies, or retrieves FRU mail settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	Configures the FRU email alerts.
<base_URI>/config/running/system-monitor-mail/fru	FRU mail settings. Refer to system-monitor-mail/fru for more information.
<base_URI>/config/running/system-monitor-mail/interface	Interface mail settings. Refer to system-monitor-mail/interface for more information.
<base_URI>/config/running/system-monitor-mail/relay	Relay IP mail settings. Refer to system-monitor-mail/relay for more information.
<base_URI>/config/running/system-monitor-mail/security	Security mail settings. Refer to system-monitor-mail/security for more information.
<base_URI>/config/running/system-monitor-mail/sfp	SFP mail settings. Refer to system-monitor-mail/sfp for more information.

POST URI	Payload	Description
/rest/config/running/system-monitor-mail	<relay><host-ip>{inet:host}</host-ip></relay>	Creates FRU email alerts.

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/fru

Configures, modifies, or retrieves FRU mail settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	Configures the FRU email alerts..
<base_URI>/config/running/system-monitor-mail/fru	FRU mail settings.

POST URI	Payload	Description
/rest/config/running/system-monitor-mail/fru	<email-list><email>(string)</email></email-list>	Configures email alerts for the FRUs.

PUT URI	Payload	Description
/rest/config/running/system-monitor-mail/fru/enable	<enable>true</enable>	Modifies email settings for the FRUs.

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	Configures the FRU email alerts.
<base_URI>/config/running/system-monitor-mail/interface	Configures email alerts for the interface.

POST URI	Payload	Description
/rest/config/running/system-monitor-mail/interface	<email-list><email>(string)</email></email-list>	Configures email address for interface.

PUT URI	Payload	Description
/rest/config/running/system-monitor-mail/interface/enable	<enable>true</enable>	Modifies email settings for interface.

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	Configures the FRU email alerts.
<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 email settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	Configures the FRU email alerts.
<base_URI>/config/running/system-monitor-mail/security	Security email settings.

POST URIs	Payload	Description
/rest/config/running/system-monitor-mail/security	<email-list><email>(string)</email></email-list>	Configures the security email alerts.

PUT URIs	Payload	Description
/rest/config/running/system-monitor-mail/security/enable	<enable>true</enable>	Modifies the security email alerts.

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 SFP email settings.

Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	Configures the FRU email alerts.
<base_URI>/config/running/system-monitor-mail/sfp	Configures email alerts for the SFP.

POST URIs	Payload	Description
/rest/config/running/system-monitor-mail/sfp	<email-list><email>(string)</email></email-list>	Configures a new email alerts for the SFP.

PUT URIs	Payload	Description
/rest/config/running/system-monitor-mail/sfp/enable	<enable>true</enable>	Modifies the SFP email alert.

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> .

uplink-switch enable

Enables uplink switch protected port globally on a switch.

Resource URIs

URI	Description
<base_URI>/config/running/uplink-switch	Enables or disables uplink switch protected port globally on a switch.

Usage Guidelines

GET, 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/uplink-switch

Request Body

None

Response Body

```
<uplink-switch xmlns="urn:brocade.com:mgmt:brocade-interface" xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/uplink-switch">
  <enable>true</enable>
</uplink-switch>>
```

History

Release version	History
7.2.0	This API call was introduced.

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.

vcenter

Authenticates with an established vCenter and provides additional options.

Resource URIs

URI	Description
<base_URI>/config/running/vcenter	Authenticates with an established vCenter and provides additional options.

Parameters

id
Specifies the vcenter ID.

url
Specifies the URL.

username
Specifies the username.

password
Specifies the password.

Usage Guidelines

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

The switch obtains its configuration from the principal node. Enabling this feature solves most node-segmentation issues.

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

URI

http://host:80/config/running/vcenter/VC1234567891999199728

Request Body

None

Response Body

```
<vcenter>
  <id>VC1234567891999199728</id>
  <url>http://10.1.1.1</url>
  <username>user1</username>
  <password>&quot;Vpu6f5yffe3zd7lqBKXorg==\n&quot;</password>
</vcenter>
```

The following example uses the PATCH option to modify the vCenter configuration.

URI

http://host:80/rest/config/running/vcenter/VC1234567891999199728

Request Body

```
<vcenter>
  <id>VC1234567891999199728</id>
  <url>http://10.1.1.1</url>
  <username>user1</username>
  <password>&quot;Vpu6f5yffe3zd7lqBKXorg==\n&quot;</password>
</vcenter>
```

Response Body

None

The following example uses the DELETE option to deactivate the vCenter configuration.

URI

http://host:80/rest/config/running/vcenter/VC1234567891999199728

Request Body

None

Response Body

None

History

Release version	History
7.1.0	This API call was introduced.

vcenter/{vcenter-name}/vlan-create

Manages default behavior during the vCenter discovery process, where VLANs are created automatically when they are not already present on the switch.

Resource URIs

URI	Description
<base _URI>/config/running/vcenter/VC1234567891999199728/vlan-create/auto	Specifies that VLANs are created automatically during the vCenter discovery process .
<base _URI>/config/running/vcenter/VC1234567891999199728/vlan-create/switch-domain	Specifies that the vCenter discovery process ignores port groups for which VLANs are not already established on the switch; VLANs must be established manually by the switch administrator.

Parameters

vcenter-name

Specifies the vcenter name.

Usage Guidelines

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

Examples

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

URI

http://host:80/running/vcenter/VC1234567891999199728/vlan-create/auto

http://host:80/running/vcenter/VC1234567891999199728/vlan-create/switch-admin

Request Body

```
<vlan_create>auto</vlan_create>
```

Response Body

None

History

Release version	History
7.2.0	This API call was introduced.

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.

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.

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.

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.

nosnapllc

Specifies to use the Ethernet version 2 non-SNA frames.

snapllc

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.

GET URIs	Description
<base_URI>/config/running/vlan	VLAN commands.
<base_URI>/config/running/vlan/dot1q	Dot1q parameters.
<base_URI>/config/running/vlan/dot1q/tag/native	Retrieves Dot1q parameter.

PUT URI	Payload	Description
<base_URI>/config/running/vlan/dot1q/tag/native	<native></native>	Configures Dot1q parameter.

DELETE URIs
<base_URI>/config/running/vlan/dot1q/tag/native

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/tag/native

Request Body

None

Response Body

```
<native xmlns="urn:brocade.com:mgmt:brocade-vlan" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/vlan/dot1q/tag/native">true</native>\r
```

The following example uses the PUT option to configure native tag.

URI

http://host:80/rest/config/running/vlan/dot1q/tag/native

Request Body

```
<native></native>
```

Response Body

None

The following example uses the DELETE option to remove Dot1q configuration.

URI

http://host:80/rest/config/running/vlan/dot1q/tag/native

Request Body

None

Response Body

None

History

Release version	History
5.0.0	This API call was introduced.

zoning

Configures, modifies, or retrieves zoning commands.

Resource URIs

URI	Description
<base_URI>/config/running/zoning	Zoning commands.
<base_URI>/config/running/zoning/defined-configuration	Defined DB entries. Refer to zoning/defined-configuration for information.
<base_URI>/config/running/zoning/enabled-configuration	Enabled DB entries. Refer to zoning/enabled-configuration for information.

Parameters

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>""/></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.

bna-config-cmd

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.

bna-config-cmd-status

Retrieves the status of a previous configuration command.

Resource URIs

URI	Description
<base_URI>/operational-state/bna-config-cmd-status	Retrieves the status of a previous configuration command.

Parameters

status

Shows the status of API bna-config-cmd (completed/inprogress).

status-string

Displays BNA config command status.

Usage Guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/bna-config-cmd-status

Request Body

```
<bna-config-cmd-status>
  <session-id>0</session-id>
</bna-config-cmd-status>
```

Response Body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras'>
  <status>completed</status>
  <status-string></status-string>
</output>
```

History

Release version	History
5.0.0	This API call was introduced.

clear/config/interface

Reverts an interface to the factory default state.

Resource URIs

URI	Description
<base_URI>/operational-state/clear/config/interface	Reverts an interface to the factory default state.

Parameters

<N>gigabitethernet

Represents a valid, physical Ethernet subtype for all available Ethernet speeds. **gigabitethernet** with the desired operand (for example, **tengigabitethernet** specifies a 10-Gb Ethernet port). The use of **gigabitethernet** without a speed value specifies a 1-Gb Ethernet port.

rbridge-id

Specifies the RBridge ID.

slot

Specifies a valid slot number.

port

Specifies a valid port number.

Usage Guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/clear/config/interface

Request Body

```
<interface><tengigabitethernet>3/0/34:4</tengigabitethernet></interface>
```

Response Body

None

History

Release version	History
7.3.0	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>
  <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>
    <fdwl-status>0</fdwl-status>
    <fdwl-msg>Disruptive.</fdwl-msg>
  </cluster-output>
  <fdwl-cmd-status>0</fdwl-cmd-status>
  <fdwl-cmd-msg>Logical-chassis firmware download initiated.</fdwl-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.

ifHCOctets

Displays the total number of octets transmitted out of the interface, including framing characters.

ifHCOOutUcastPkts

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.

ifHCOOutMulticastPkts

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.

ifHCOOutBroadcastPkt

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.

ifHCOOutErrors

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.

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>
```

get-interface-detail

```
<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 with MAC type and interface (name and type).

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

Response Body

Request Body

```
<get-mac-address-table>
  <last-mac-address-details>
    <last-mac-address>00:11:11:82:12:92</last-mac-address>
    <last-vlan-id>10</last-vlan-id>
    <last-mac-type>dynamic</last-mac-type>
  </last-mac-address-details>
  <forwarding-interface-type>tengigabitethernet</forwarding-interface-type>
  <forwarding-interface-name>9/1/6</forwarding-interface-name>
</get-mac-address-table>
```

Response Body

```
<<output xmlns='urn:brocade.com:mgmt:brocade-mac-address-table'>
  <mac-address-table>
    <vlanid>10</vlanid>
    <mac-address>10:00:20:00:30:00</mac-address>
    <mac-type>dynamic</mac-type>
    <mac-state>active</mac-state>
    <forwarding-interface>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>9/1/6</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.
7.1.0	Updated the example sections to reflect the interface and forwarding interface filters.

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 Extreme shared area method of Fibre channel addressing.

nameserver-redirect

Indicates whether or not the device is involved in Extreme 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.

<i>rbridge-id</i>	Displays the RBridge ID.
<i>interface-type</i>	Displays the interface type.
<i>interface-name</i>	Displays the interface name.
<i>actor-port</i>	Displays the actor port number.
<i>sync</i>	Displays the sync-info.

Usage Guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-port-channel-detail

Request Body

```
<get-port-channel-detail></get-port-channel-detail>
```

Response Body

```
<output xmlns='urn:brocade.com:mgmt:brocade-lag'>
  <lacp>
    <aggregator-id>6</aggregator-id>
    <aggregator-type>standard</aggregator-type>
    <isvlag>true</isvlag>
    <aggregator-mode>dynamic</aggregator-mode>
    <system-priority>32768</system-priority>
    <actor-system-id>01:e0:52:00:20:00</actor-system-id>
    <partner-oper-priority>32768</partner-oper-priority>
    <partner-system-id>00:05:1e:cd:19:6a</partner-system-id>
    <admin-key>6</admin-key>
    <oper-key>6</oper-key>
    <partner-oper-key>6</partner-oper-key>
    <rx-link-count>4</rx-link-count>
    <tx-link-count>4</tx-link-count>
    <individual-agg>0</individual-agg>
    <ready-agg>1</ready-agg>
    <aggr-member>
      <rbridge-id>122</rbridge-id>
      <interface-type>TenGigabitEthernet</interface-type>
      <interface-name>122/5/13</interface-name>
      <actor-port>524410060933</actor-port>
      <sync>1</sync>
    </aggr-member>
  </lacp>
</output>
```

History

Release version	History
5.0.0	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.

<i>internal-path-cost</i>	Designated internal path cost.
<i>configured-path-cost</i>	Displays the configured path cost.
<i>designated-port-id</i>	Displays the designated port ID.
<i>port-priority</i>	Displays the Port priority.
<i>designated-bridge-id</i>	Displays the designated bridge ID.
<i>port-hello-time</i>	Displays the Port hello time.
<i>forward-transitions-count</i>	Displays the number of forward transitions.
<i>received-stp-type</i>	Displays the received (rx) STP type.
<i>transmitted-stp-type</i>	Displays the transmitted (tx) STP type.
<i>edge-port</i>	Displays the edge port mode.
<i>auto-edge</i>	Displays the auto edge.
<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.

tx-bpdu-count

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>

<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>port-channel</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>port-channel</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 .

Examples

URI

http://host:80/rest/operational-state/get-tunnel-info

Request Body

```
<get-tunnel-info></get-tunnel-info>
```

Response Body

```
<tunnel>
  <id>61441</id>
  <mode>vxlan</mode>
  <src-ip>54.54.54.54</src-ip>
  <dest-ip>66.66.66.66</dest-ip>
  <vrf>default-vrf</vrf>
  <config-src>bgp-evpn</config-src>
  <admin-state>up</admin-state>
  <oper-state>up</oper-state>
  <rbridges>
    <rbrid>54</rbrid>
  </rbridges>
</tunnel>
<tunnel>
  <id>61442</id>
  <mode>vxlan</mode>
  <src-ip>54.54.54.54</src-ip>
  <dest-ip>71.71.71.71</dest-ip>
  <vrf>default-vrf</vrf>
  <config-src>bgp-evpn</config-src>
  <admin-state>up</admin-state>
  <oper-state>up</oper-state>
  <rbridges>
    <rbrid>54</rbrid>
  </rbridges>
</tunnel>
<tunnel>
  <id>61443</id>
  <mode>vxlan</mode>
  <src-ip>54.54.54.54</src-ip>
  <dest-ip>77.77.77.77</dest-ip>
  <vrf>default-vrf</vrf>
  <config-src>bgp-evpn</config-src>
  <admin-state>up</admin-state>
  <oper-state>up</oper-state>
  <rbridges>
    <rbrid>54</rbrid>
  </rbridges>
</tunnel>
```

History

Release version	History
7.0.1	This API call was introduced.

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.

Release version	History
6.0.0	This API was modified to include the 'has-more' functionality.

get-vmppolicy-macaddr

Shows vnics/vmknics to port group to port-profile association.

Resource URIs

URI	Description
<base_URI>/operational-state/get-vmppolicy-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.

dvpgrp-nn

Displays the distributed virtual port group.

port-prof

Displays the Port-profile.

Usage Guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/get-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>
    <dvpgrp-nn>Management Network</dvpgrp-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>
    <dvpgrp-nn>pg3</dvpgrp-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>
    <dvpgrp-nn>VM Network</dvpgrp-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>
    <dvpgrp-nn>vlan-castor-19</dvpgrp-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>
    <dvpgrp-nn>Management Network</dvpgrp-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>
    <dvpgrp-nn>Management Network</dvpgrp-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

- name*
Displays the distributed 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-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>
    <pnid>vmnic4</pnid>
    <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>
    <pnid>vmnic5</pnid>
    <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>
    <pnid>vmnic8</pnid>
    <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>
    <pnid>vmnic9</pnid>
    <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>
</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>
    <pnic>vmnic0</pnic>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-vswitches>
  <vnetwork-vswitches>
    <name>vSwitch0</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnic>vmnic0</pnic>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-vswitches>
  <vnetwork-vswitches>
    <name>vSwitch2</name>
    <datacenter>datacenter-2</datacenter>
    <host>esx5-0-70.englab.brocade.com</host>
    <pnic>vmnic1</pnic>
    <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>
    <pnic>vmnic4</pnic>
    <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>
    <pnic>vmnic5</pnic>
    <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>
    <pnic>vmnic6</pnic>
    <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>vmnic7</pnid>
    <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/I2traceroute	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 I2traceroute-result to check the result of this operation.

reason

Displays the reason for this return.

Usage Guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/I2traceroute

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-fwld-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.

polycyname

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>
  <rulename>defALL_ETH_PORTSRX_IFG_0</rulename>
  <groupname>ALL_ETH_PORTS</groupname>
  <monitor>RX_IFG</monitor>
  <op>></op>
  <value>0</value>
  <action>RASLOG</action>
  <timebase>MIN</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defCHASSISBAD_FAN_CRIT</rulename>
  <groupname>CHASSIS</groupname>
  <monitor>BAD_FAN</monitor>
  <op>==</op>
  <value>2</value>
  <action>RASLOG,SW_CRITICAL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_IN</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>IN</value>
  <action>RASLOG,SNMP,EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OUT</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>OUT</value>
  <action>RASLOG,SNMP,EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OUT</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>OUT</value>
  <action>RASLOG,SNMP,EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_aggressive_policy</policyname>
</rules>
</output>

```

History

Release version	History
6.0.1	This API call was introduced.
7.0.0	This API call was renamed to maps-get-default-rules instead of maps-get-rules .

no-vcs-rbridge-context

Disables VCS Fabric mode.

Resource URIs

URI	Description
<base_URI>/operational-state/no-vcs-rbridge-context	Disables VCS Fabric mode.

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 device.

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 RBridge 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-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-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-version

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, SLX-OS, 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.

ls-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 Extreme 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.

port-index

Displays the port index.

port-interface

Displays the port index interface.

port-type

Displays the port type.

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.

<i>node-rbridge-id</i>	Displays the node RBridge ID.
<i>node-is-principal</i>	Indicates if the node is management cluster principal.
<i>node-co-ordinator</i>	Indicates if the node is management cluster coordinator.
<i>node-switch-mac</i>	Displays the node switch MAC address.
<i>node-switch-wwn</i>	Displays the node switch WWN.
<i>switch-fcf-mac</i>	Displays the node FCF MAC address.
<i>node-internal-ip-address</i>	Displays the node internal IP address.
<i>node-public-ip-address</i>	Displays the node public IP address.
<i>node-public-ipv6-address</i>	Displays the node public IPv6 address.
<i>node-swbd-number</i>	Displays the node SWBD number.
<i>firmware-version</i>	Displays the node firmware version.
<i>node-switchname</i>	Displays the node switch name.
<i>node-fabric-state</i>	Displays the Fabric node state.

Usage Guidelines

Only POST operation is supported.

Examples

URI

http://host:80/rest/operational-state/show-vcs

Request Body

```
<show-vcs></show-vcs>
```

Response Body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>
  <vcs-cluster-type-info>vcs-management-cluster</vcs-cluster-type-info>
  <vcs-guid>00000000000000000000000000000000</vcs-guid>
  <virtual-ip-address>NULL</virtual-ip-address>
  <principal-switch-wwn>10:00:00:27:F8:54:4F:98</principal-switch-wwn>
  <co-ordinator-wwn>10:00:00:27:F8:54:4F:98</co-ordinator-wwn>
  <total-nodes-in-cluster>1</total-nodes-in-cluster>
  <nodes-disconnected-from-cluster>0</nodes-disconnected-from-cluster>
  <cluster-generic-status>Good</cluster-generic-status>
  <cluster-specific-status>All Nodes Present in the Cluster</cluster-specific-status>
  <vcs-nodes>
    <vcs-node-info>
      <node-num>1</node-num>
      <node-serial-num>CDU2507J00D</node-serial-num>
      <node-condition>Good</node-condition>
      <node-status>Co-ordinator</node-status>
      <node-vcs-mode>Enabled</node-vcs-mode>
      <node-vcs-id>1</node-vcs-id>
      <node-rbridge-id>1</node-rbridge-id>
      <node-is-principal>true</node-is-principal>
      <co-ordinator>true</co-ordinator>
      <node-switch-mac>00:27:f8:54:50:19</node-switch-mac>
      <node-switch-wwn>10:00:00:27:F8:54:4F:98</node-switch-wwn>
      <switch-fcf-mac>00:27:f8:54:4f:98</switch-fcf-mac>
      <node-internal-ip-address>127.1.0.1</node-internal-ip-address>
      <node-public-ip-addresses>
        <node-public-ip-address>10.24.81.195</node-public-ip-address>
      </node-public-ip-addresses>
      <node-public-ipv6-addresses>
      </node-public-ipv6-addresses>
      <node-swbd-number>1000</node-swbd-number>
      <firmware-version>v5.0.0nos5.0.0_pit_a_140518_1800</firmware-version>
      <node-switchname>sw0</node-switchname>
      <node-state>Online</node-state>
      <node-fabric-state>Online</node-fabric-state>
    </vcs-node-info>
  </vcs-nodes>
</output>
```

History

Release version	History
5.0.0	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.